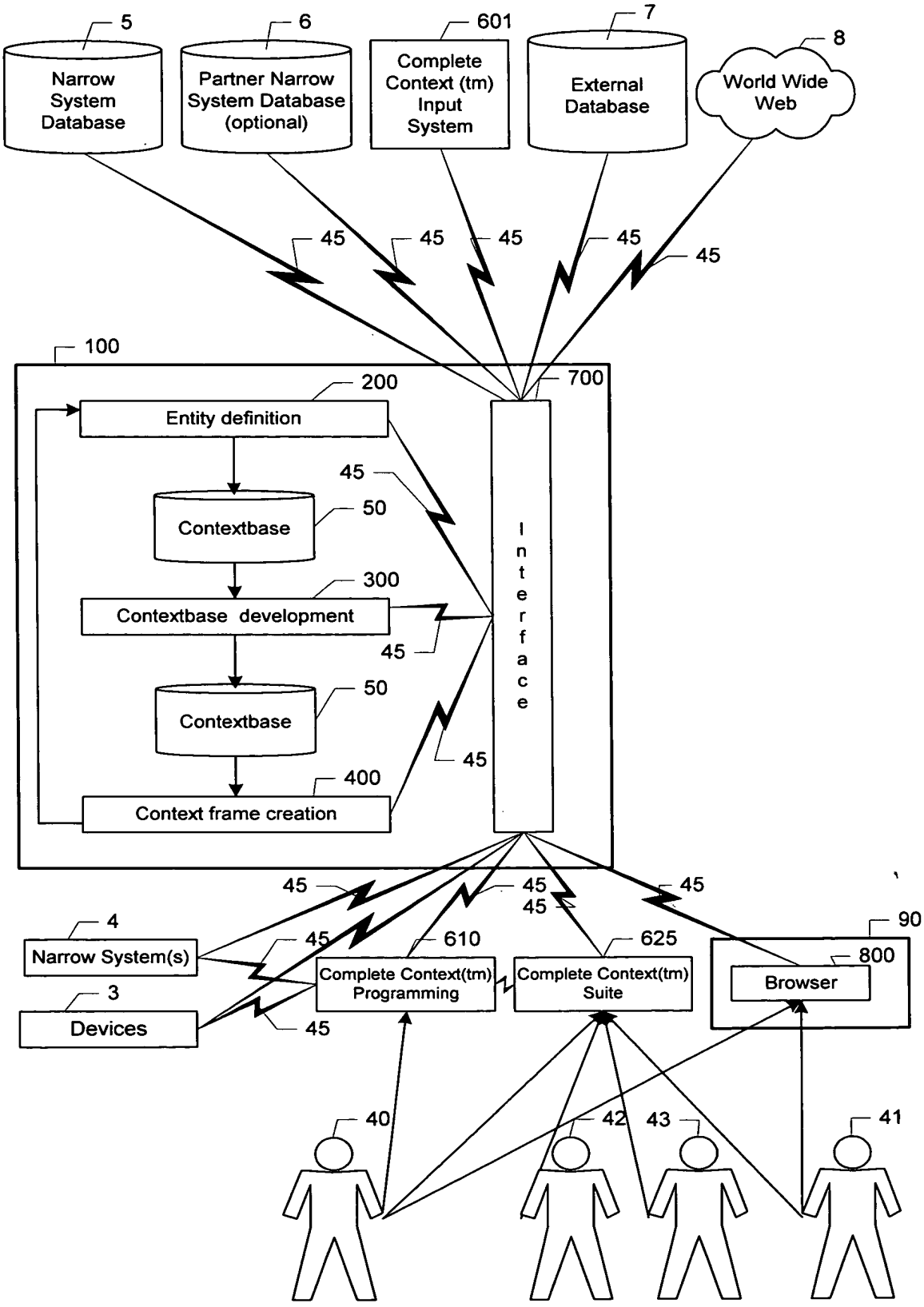
FIG. 1


5
Narrow System Database
6
Partner Narrow System Database (optional)
601
Complete Context (tm) Input System
7
External Database
8
World Wide Web
45
100
200
Entity definition
50
Contextbase
300
Contextbase development
400
Context frame creation
700
Interface
4
Narrow System(s)
3
Devices
610
Complete Context(tm) Programming
625
Complete Context(tm) Suite
90
800
Browser
40
42
43
41

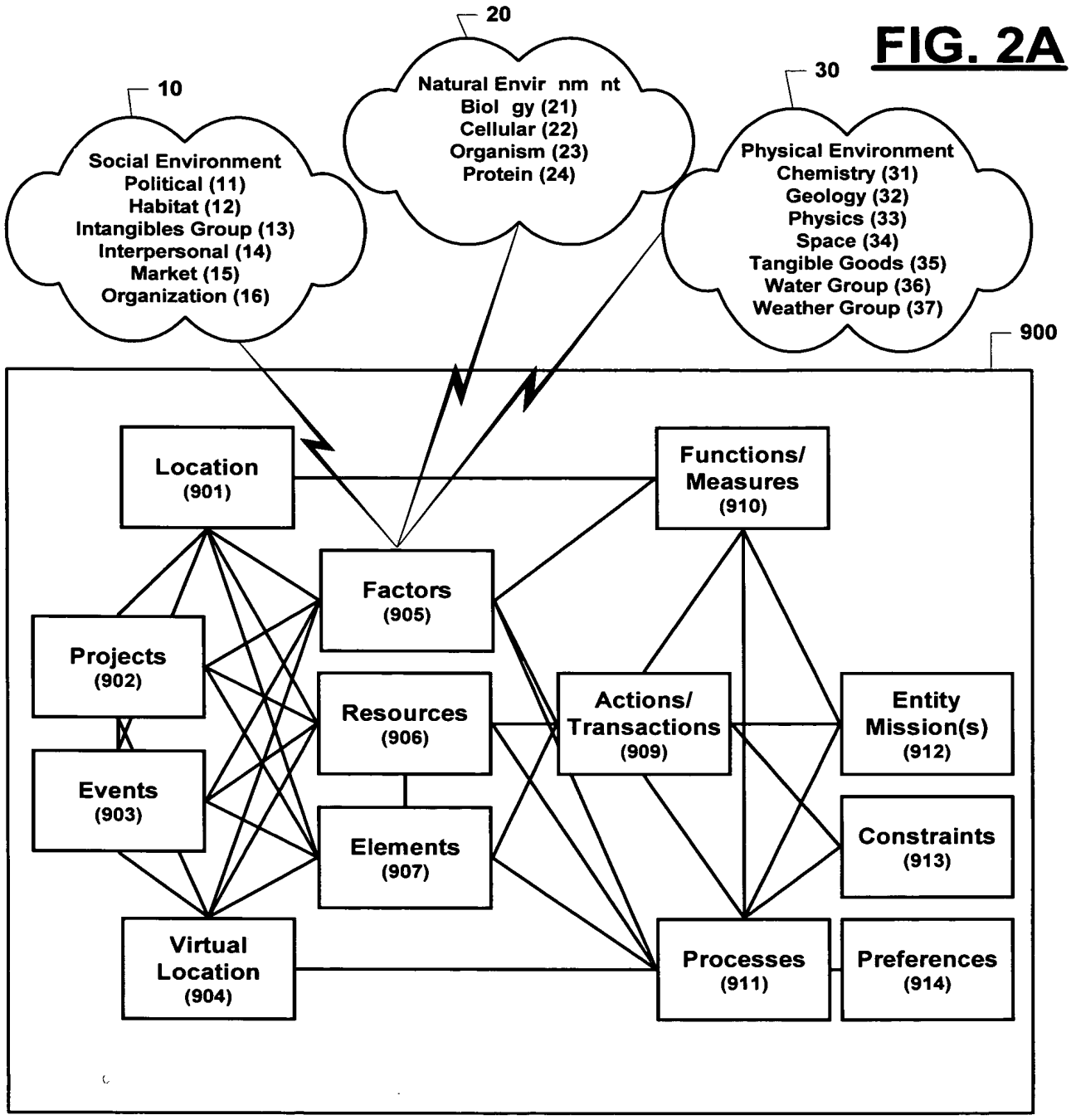


FIG. 2A
10
Social Environment
Political (11)
Habitat (12)
Intangibles Group (13)
Interpersonal (14)
Market (15)
Organization (16)
20
Natural Environment
Biology (21)
Cellular (22)
Organism (23)
Protein (24)
30
Physical Environment
Chemistry (31)
Geology (32)
Physics (33)
Space (34)
Tangible Goods (35)
Water Group (36)
Weather Group (37)
900
Location (901)
Functions/ Measures (910)
Factors (905)
Projects (902)
Resources (906)
Actions/ Transactions (909)
Entity Mission(s) (912)
Events (903)
Elements (907)
Constraints (913)
Virtual Location (904)
Processes (911)
Preferences (914)

FIG. 2B

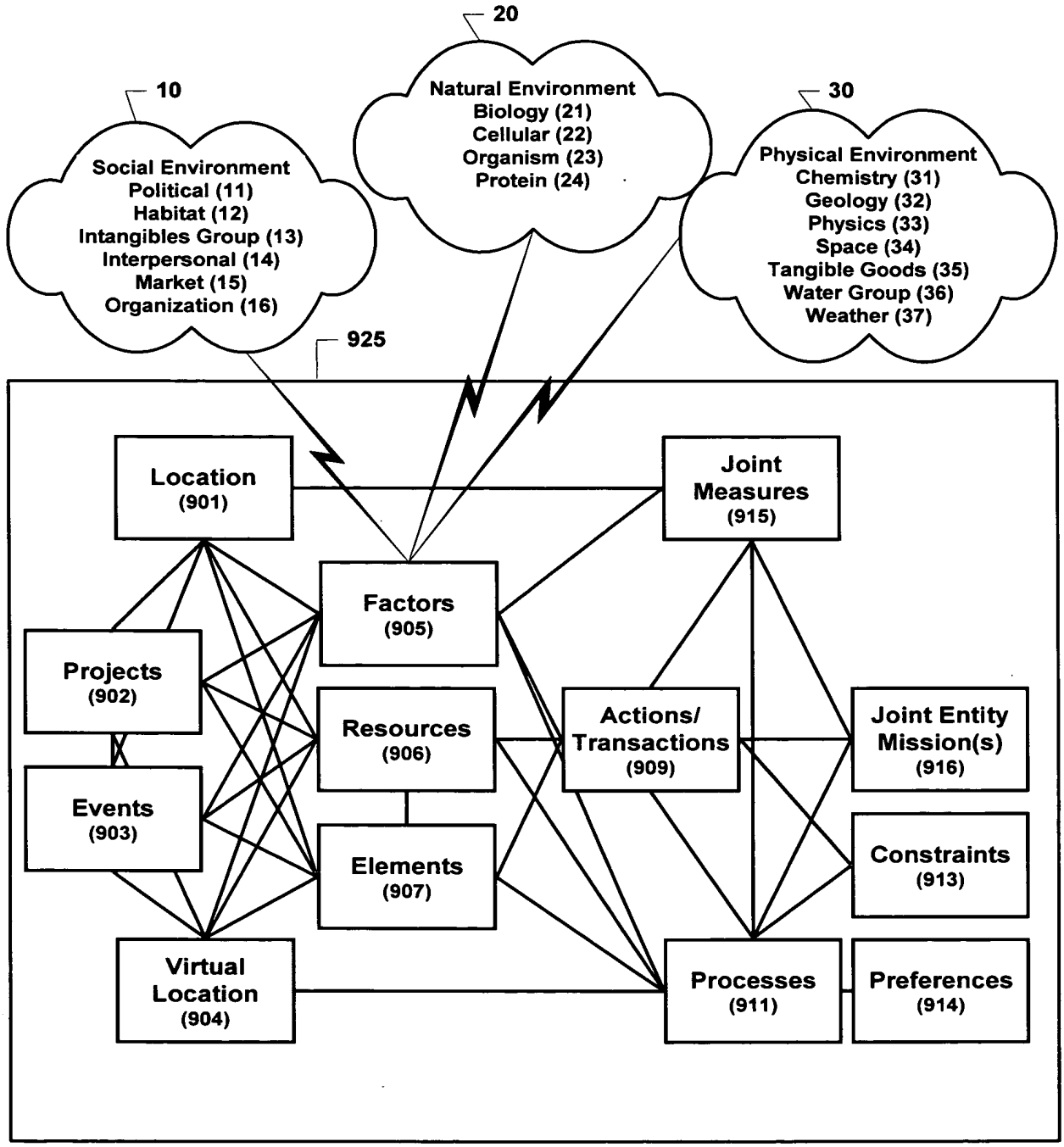

20
Natural Environment
Biology (21)
Cellular (22)
Organism (23)
Protein (24)
10
Social Environment
Political (11)
Habitat (12)
Intangibles Group (13)
Interpersonal (14)
Market (15)
Organization (16)
30
Physical Environment
Chemistry (31)
Geology (32)
Physics (33)
Space (34)
Tangible Goods (35)
Water Group (36)
Weather (37)
925
Location (901)
Joint Measures (915)
Factors (905)
Projects (902)
Resources (906)
Actions/ Transactions (909)
Joint Entity Mission(s) (916)
Events (903)
Elements (907)
Constraints (913)
Virtual Location (904)
Processes (911)
Preferences (914)

FIG. 3

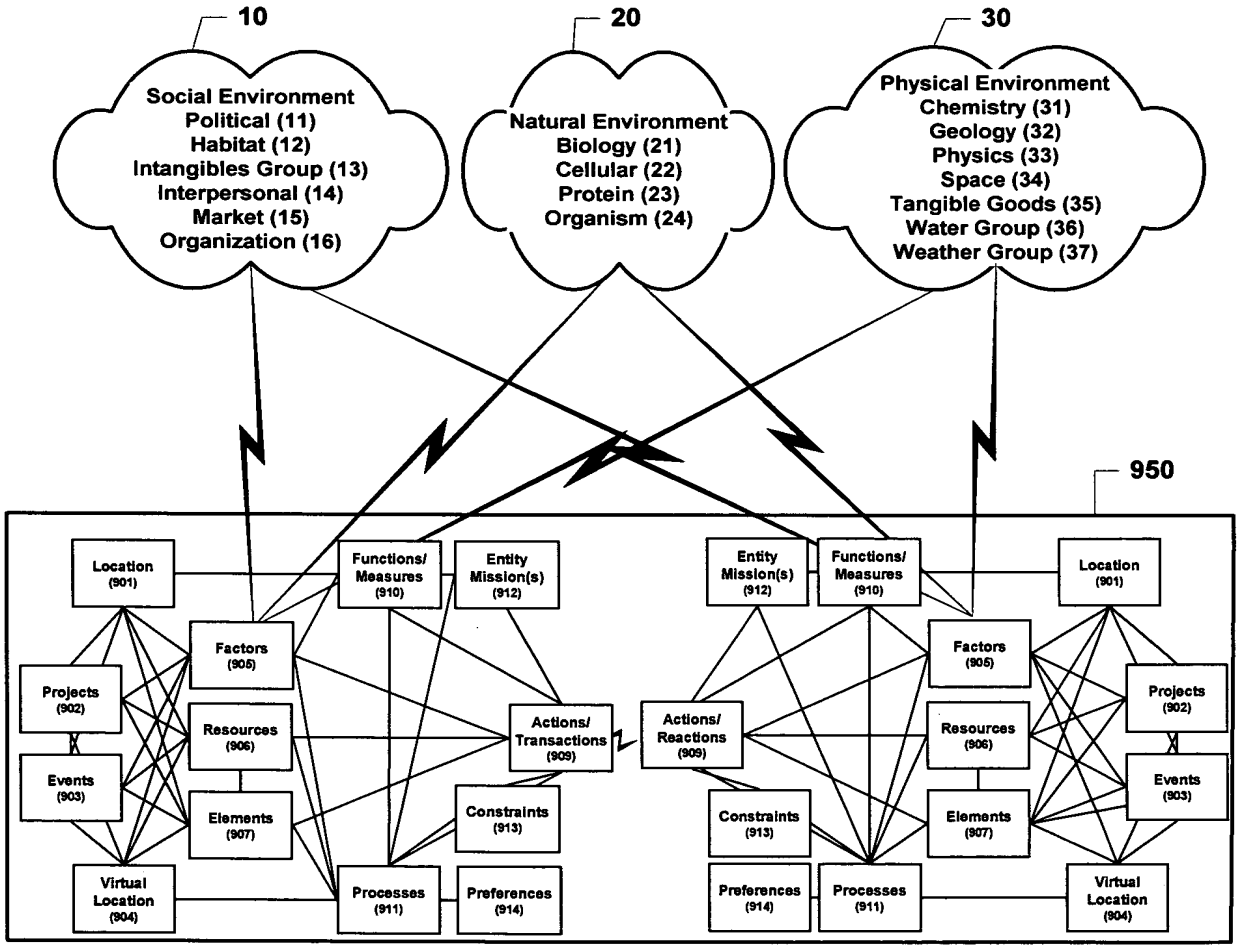

10
Social Environment
Political (11)
Habitat (12)
Intangibles Group (13)
Interpersonal (14)
Market (15)
Organization (16)
20
Natural Environment
Biology (21)
Cellular (22)
Protein (23)
Organism (24)
30
Physical Environment
Chemistry (31)
Geology (32)
Physics (33)
Space (34)
Tangible Goods (35)
Water Group (36)
Weather Group (37)
950
Location (901)
Functions/ Measures (910)
Entity Mission(s) (912)
Factors (905)
Projects (902)
Resources (906)
Actions/ Transactions (909)
Events (903)
Elements (907)
Constraints (913)
Virtual Location (904)
Processes (911)
Preferences (914)
Entity Mission(s) (912)
Functions/ Measures (910)
Location (901)
Actions/ Reactions (909)
Factors (905)
Projects (902)
Resources (906)
Events (903)
Constraints (913)
Elements (907)
Preferences (914)
Processes (911)
Virtual Location (904)

FIG. 4

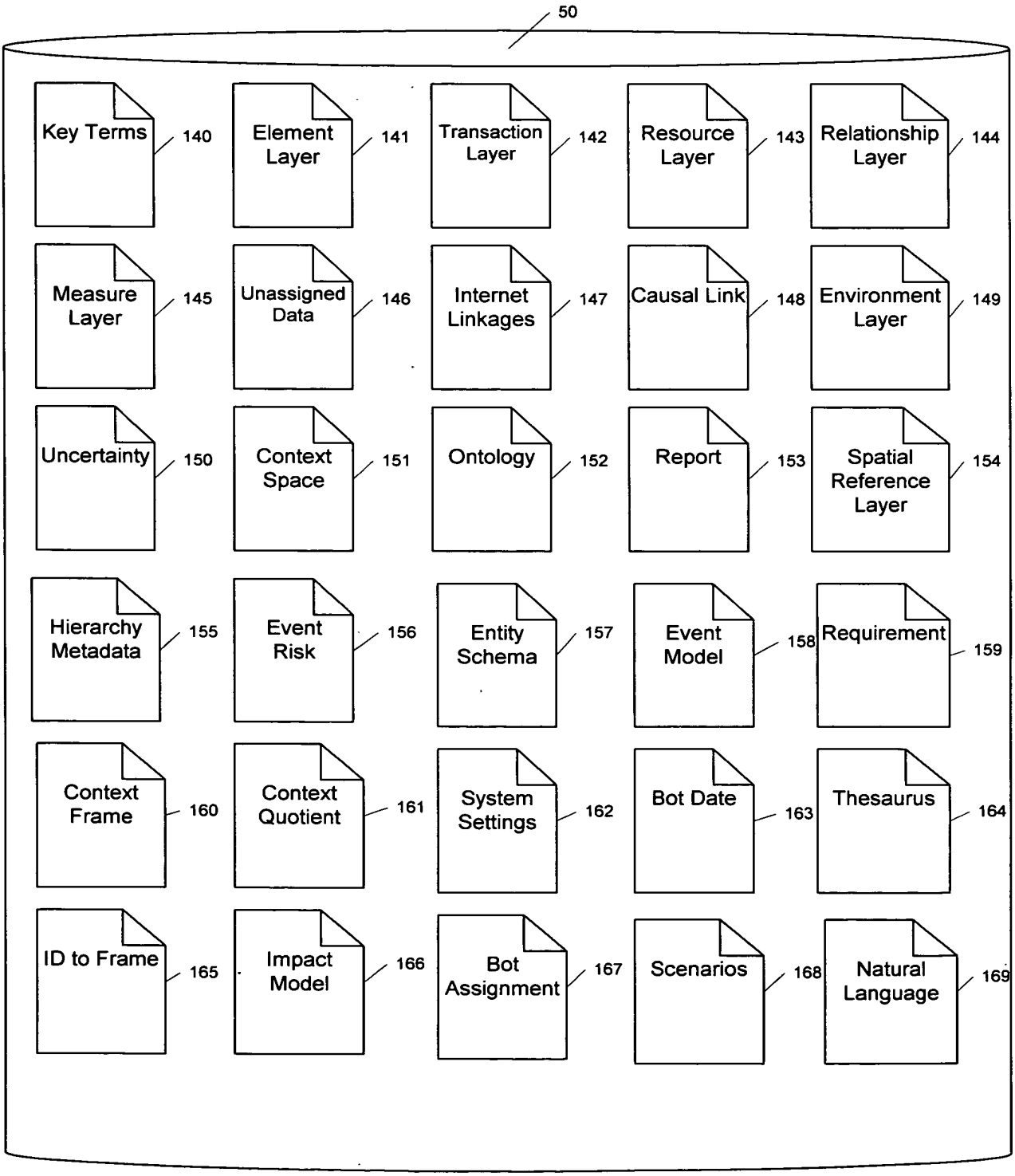

50
Key Terms
140
Element Layer
141
Transaction Layer
142
Resource Layer
143
Relationship Layer
144
Measure Layer
145
Unassigned Data
146
Internet Linkages
147
Causal Link
148
Environment Layer
149
Uncertainty
150
Context Space
151
Ontology
152
Report
153
Spatial Reference Layer
154
Hierarchy Metadata
155
Event Risk
156
Entity Schema
157
Event Model
158
Requirement
159
Context Frame
160
Context Quotient
161
System Settings
162
Bot Date
163
Thesaurus
164
ID to Frame
165
Impact Model
166
Bot Assignment
167
Scenarios
168
Natural Language
169

FIG. 5

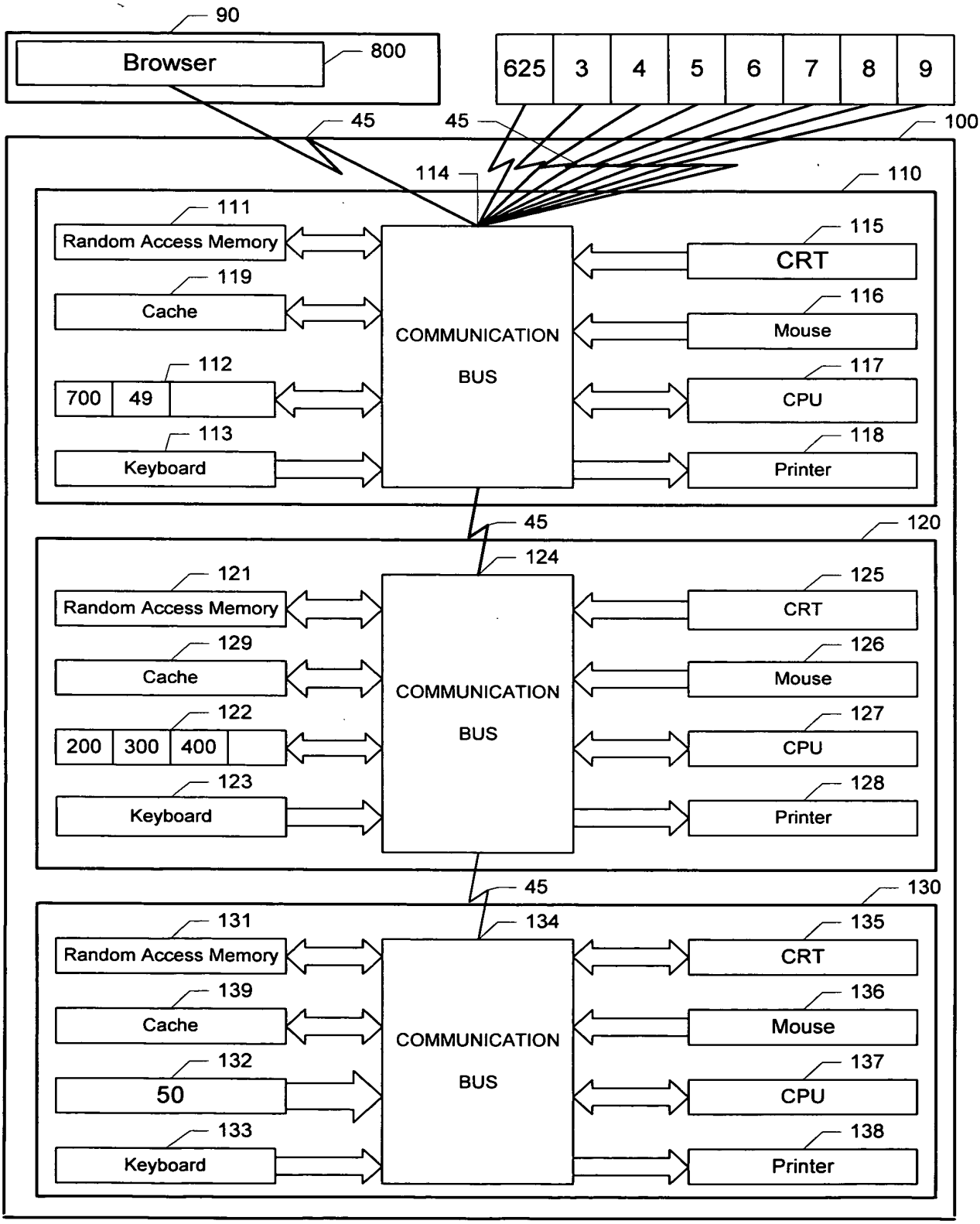

90
Browser
800
625
3
4
5
6
7
8
9
45
45
100
114
110
111
Random Access Memory
119
Cache
112
700
49
113
Keyboard
COMMUNICATION BUS
115
CRT
116
Mouse
117
CPU
118
Printer
45
120
124
121
Random Access Memory
129
Cache
122
200
300
400
123
Keyboard
COMMUNICATION BUS
125
CRT
126
Mouse
127
CPU
128
Printer
45
130
134
131
Random Access Memory
139
Cache
132
50
133
Keyboard
COMMUNICATION BUS
135
CRT
136
Mouse
137
CPU
138
Printer

FIG. 6A

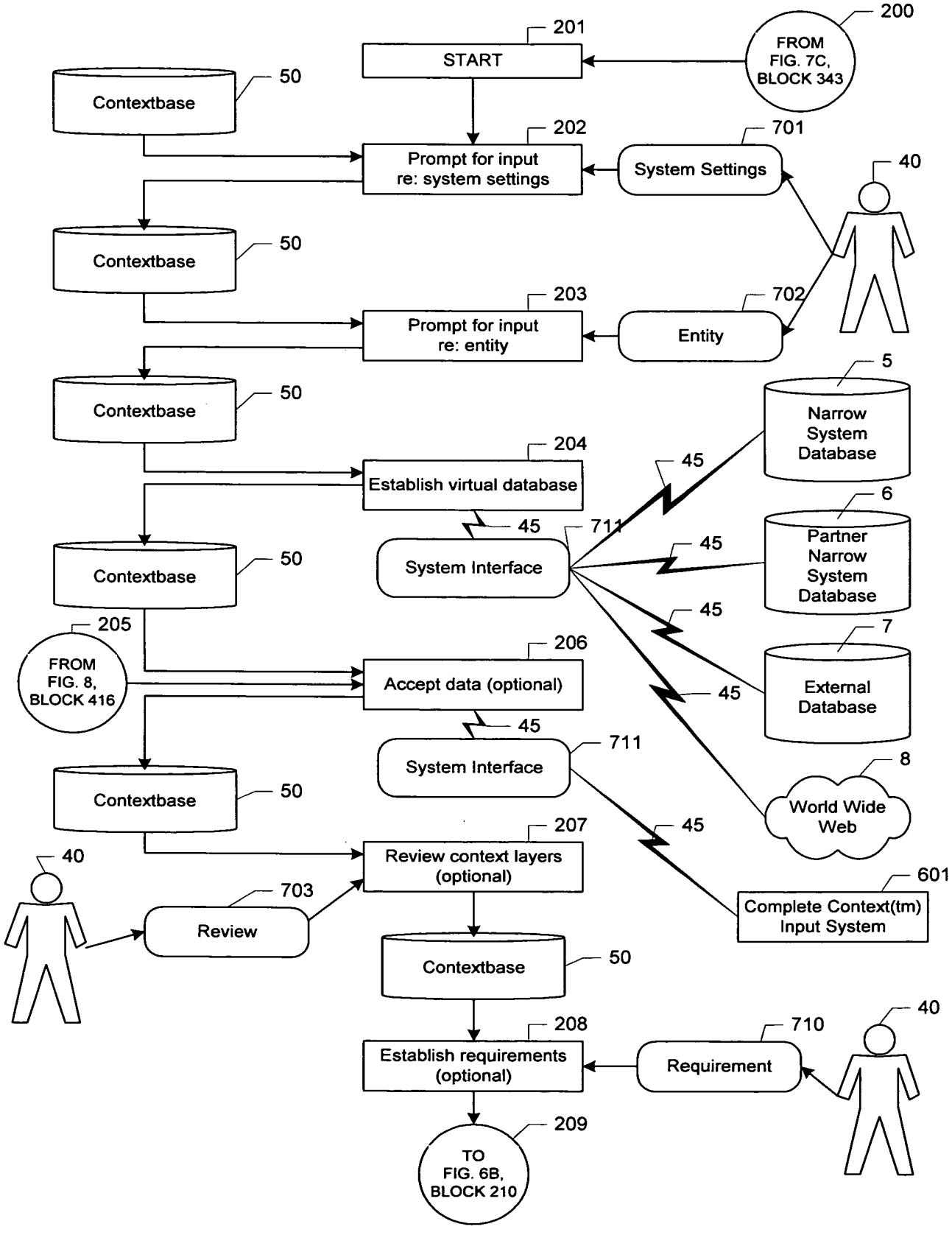

200
FROM FIG. 7C, BLOCK 343
201
START
50
Contextbase
202
Prompt for input re: system settings
701
System Settings
40
50
Contextbase
203
Prompt for input re: entity
702
Entity
50
Contextbase
5
Narrow System Database
204
Establish virtual database
45
6
Partner Narrow System Database
45
711
System Interface
50
Contextbase
45
7
External Database
205
FROM FIG. 8, BLOCK 416
206
Accept data (optional)
45
711
System Interface
50
Contextbase
8
World Wide Web
45
207
Review context layers (optional)
40
703
Review
601
Complete Context(tm) Input System
50
Contextbase
208
Establish requirements (optional)
710
Requirement
40
209
TO FIG. 6B, BLOCK 210

FIG. 6B

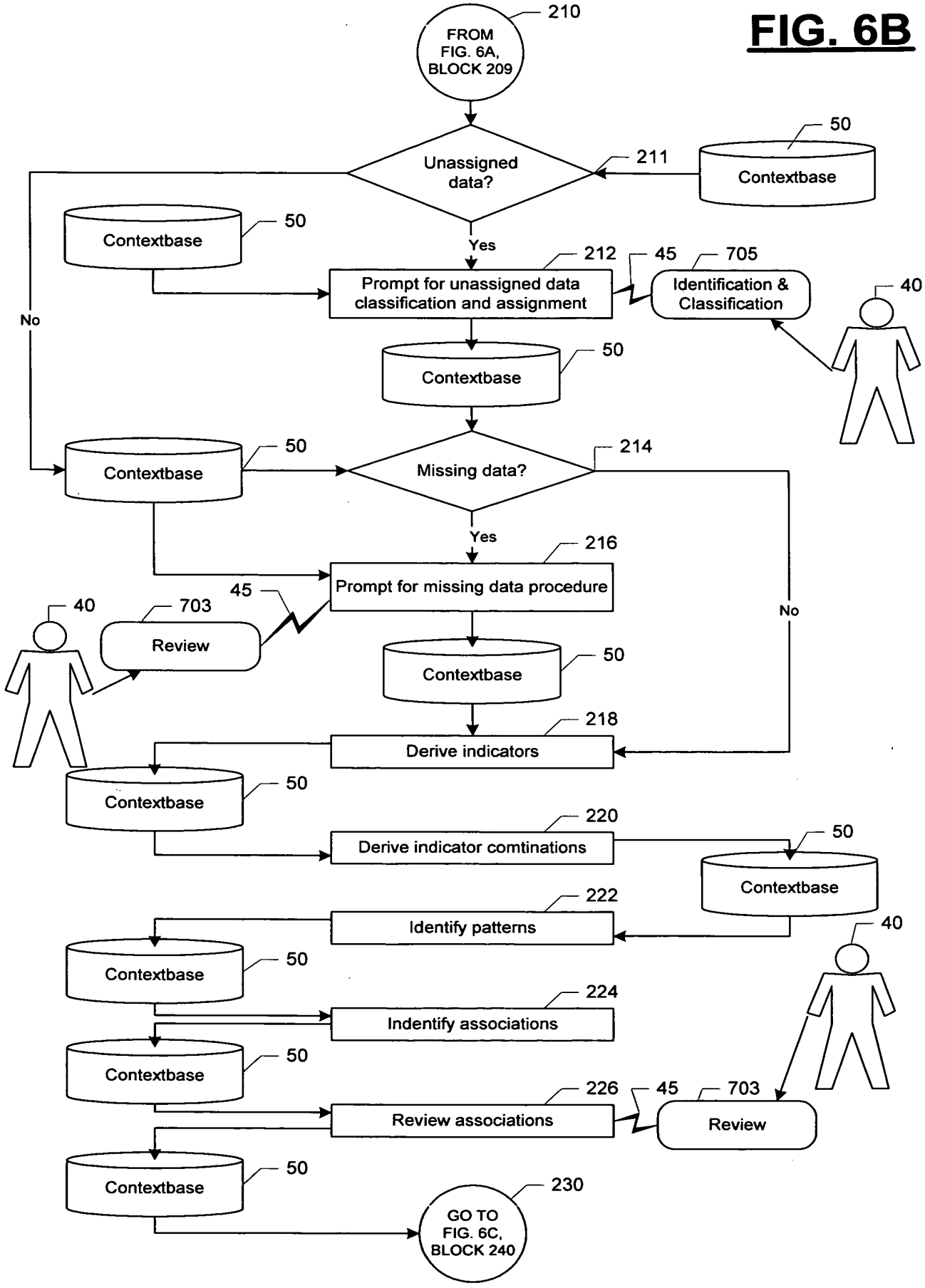

210
FROM FIG. 6A, BLOCK 209
Unassigned data?
211
50
Contextbase
Yes
No
212
45
705
Prompt for unassigned data classification and assignment
Identification & Classification
40
214
Missing data?
216
Prompt for missing data procedure
703
Review
218
Derive indicators
220
Derive indicator comtinations
222
Identify patterns
224
Indentify associations
226
Review associations
230
GO TO FIG. 6C, BLOCK 240

FIG. 6C

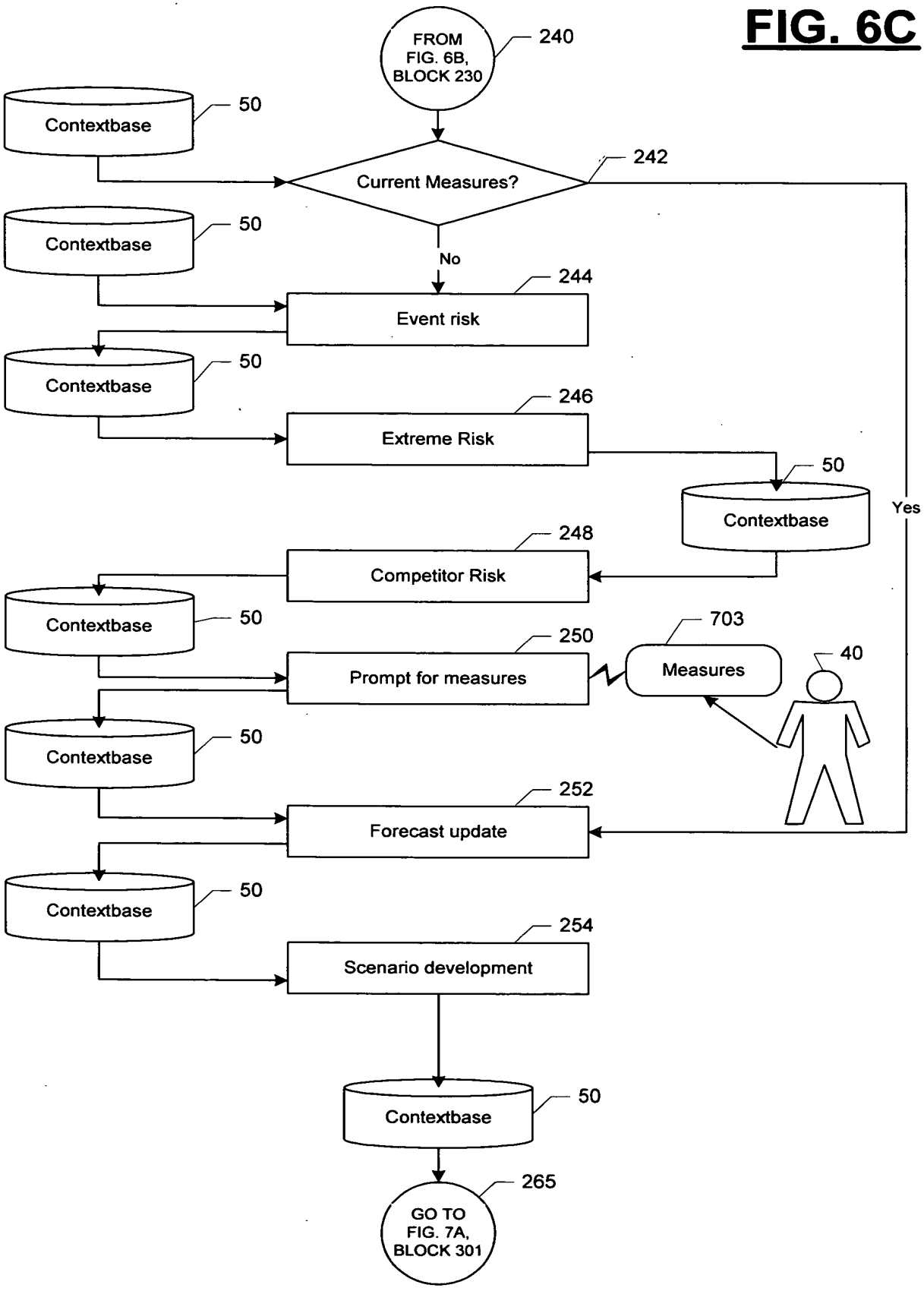

FROM FIG. 6B, BLOCK 230
240
Contextbase
50
Current Measures?
242
No
Yes
Event risk
244
Extreme Risk
246
Competitor Risk
248
Prompt for measures
250
Measures
703
40
Forecast update
252
Scenario development
254
GO TO FIG. 7A, BLOCK 301
265

FIG. 7A

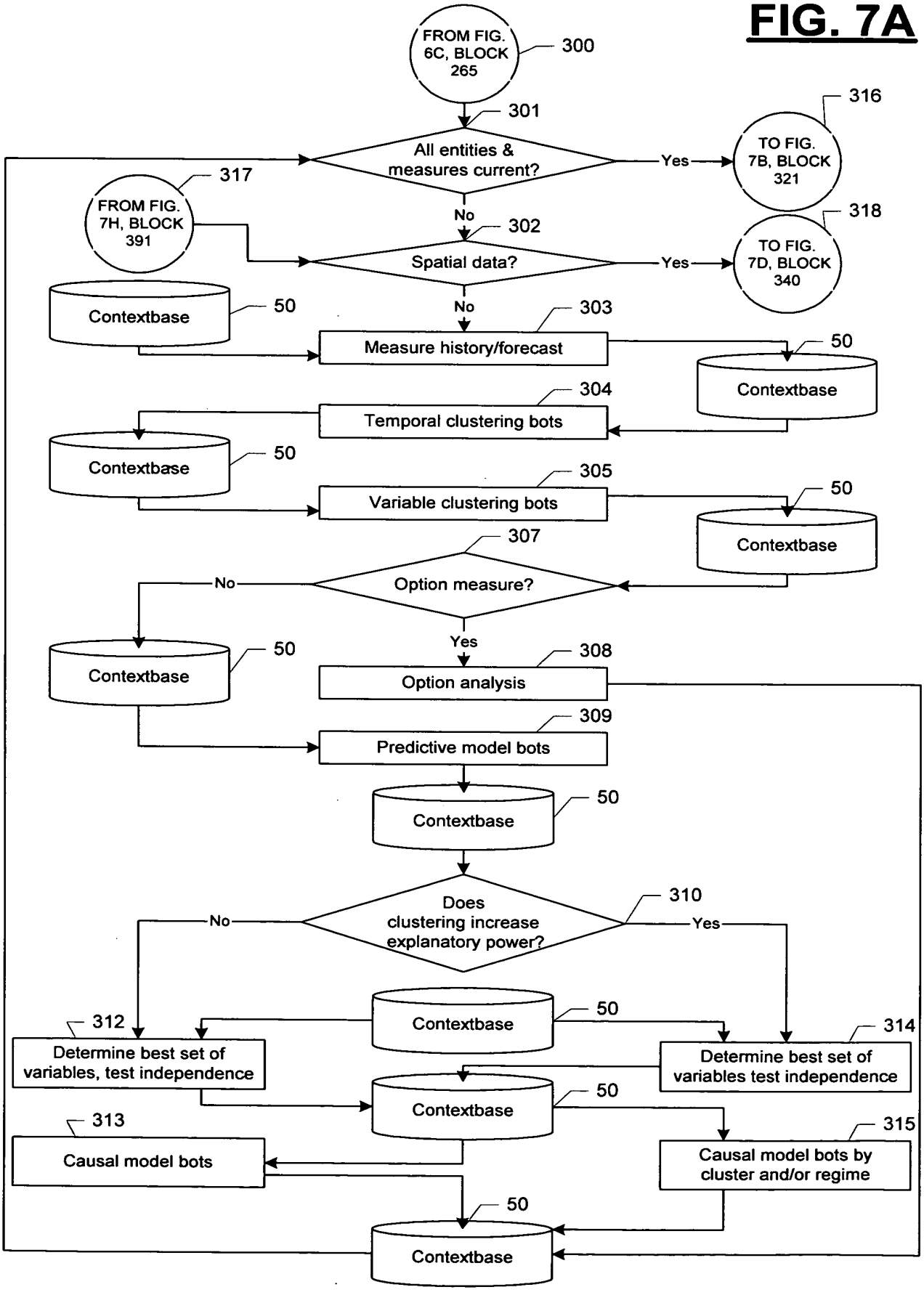

FROM FIG. 6C, BLOCK 265
300
301
All entities & measures current?
Yes
TO FIG. 7B, BLOCK 321
316
No
FROM FIG. 7H, BLOCK 391
317
302
Spatial data?
Yes
TO FIG. 7D, BLOCK 340
318
No
Contextbase
50
303
Measure history/forecast
304
Temporal clustering bots
305
Variable clustering bots
307
Option measure?
No
Yes
308
Option analysis
309
Predictive model bots
310
Does clustering increase explanatory power?
No
Yes
312
Determine best set of variables, test independence
313
Causal model bots
314
Determine best set of variables test independence
315
Causal model bots by cluster and/or regime

FIG. 7B

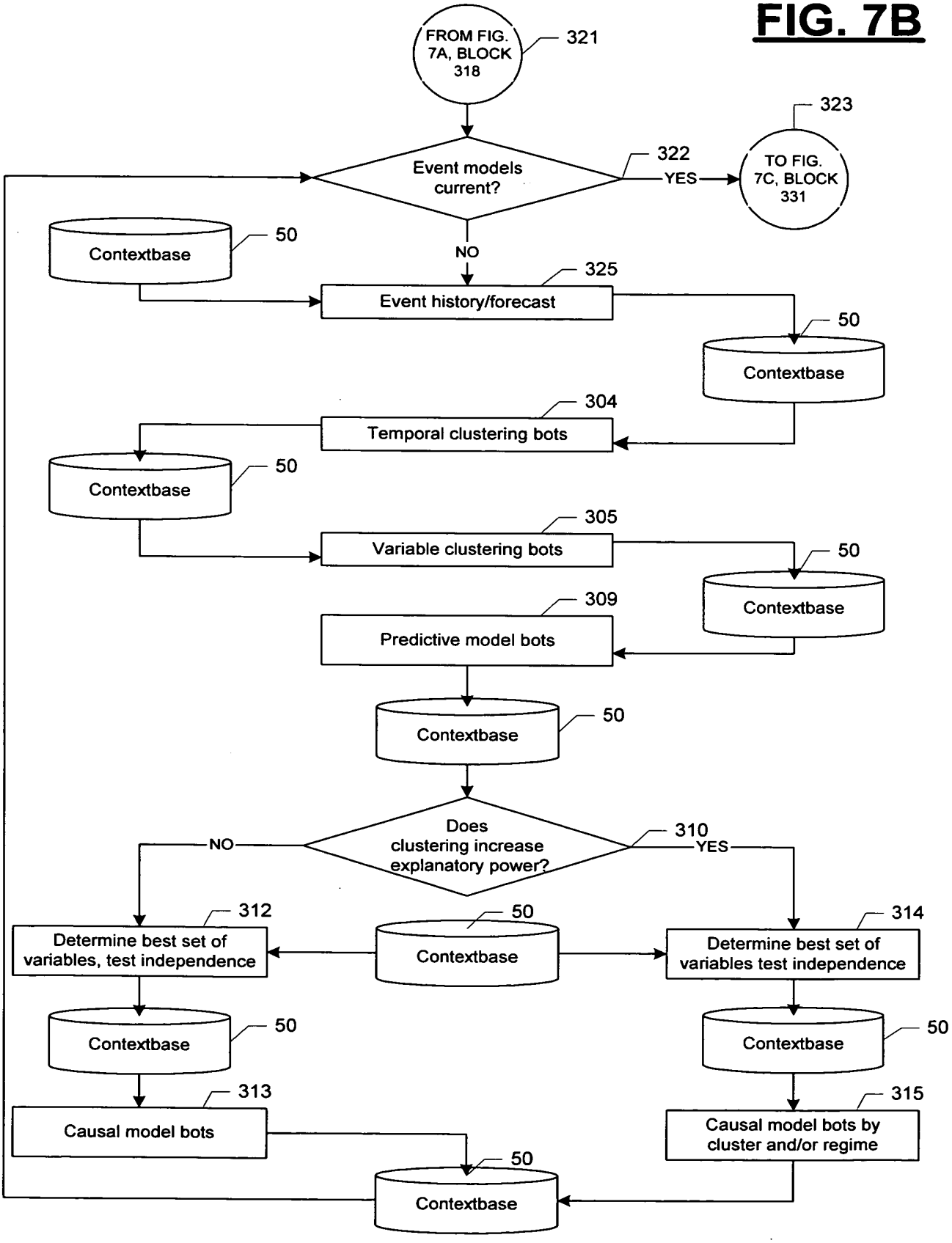

FROM FIG. 7A, BLOCK 318
321
323
Event models current?
322
YES
TO FIG. 7C, BLOCK 331
NO
Contextbase
50
325
Event history/forecast
304
Temporal clustering bots
305
Variable clustering bots
309
Predictive model bots
Does clustering increase explanatory power?
310
NO
YES
312
Determine best set of variables, test independence
314
Determine best set of variables test independence
313
Causal model bots
315
Causal model bots by cluster and/or regime

FIG. 7C

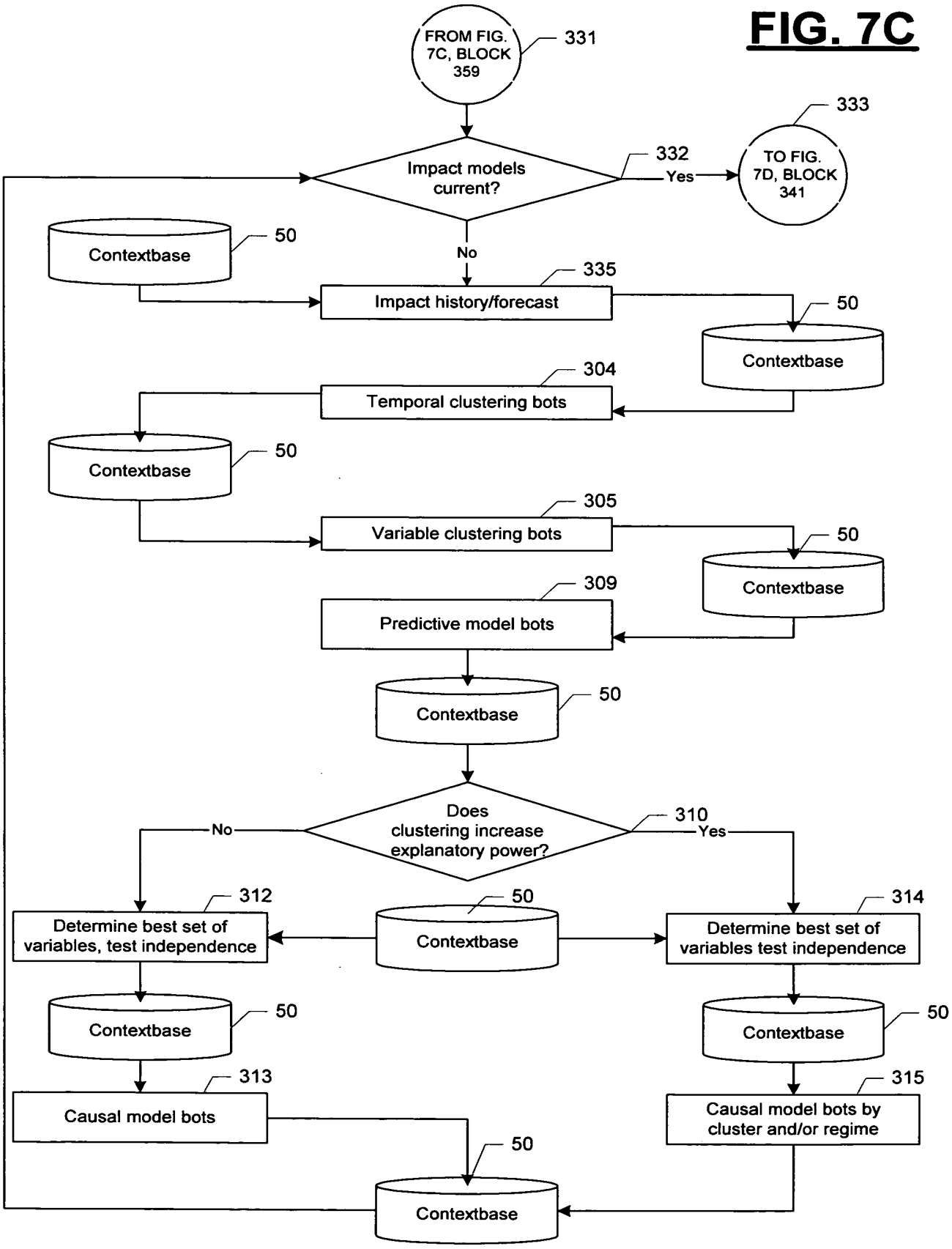

FROM FIG. 7C, BLOCK 359
331
333
Impact models current?
332
Yes
TO FIG. 7D, BLOCK 341
No
Contextbase
50
335
Impact history/forecast
304
Temporal clustering bots
305
Variable clustering bots
309
Predictive model bots
Does clustering increase explanatory power?
310
No
Yes
312
Determine best set of variables, test independence
314
Determine best set of variables test independence
313
Causal model bots
315
Causal model bots by cluster and/or regime

FIG. 7D

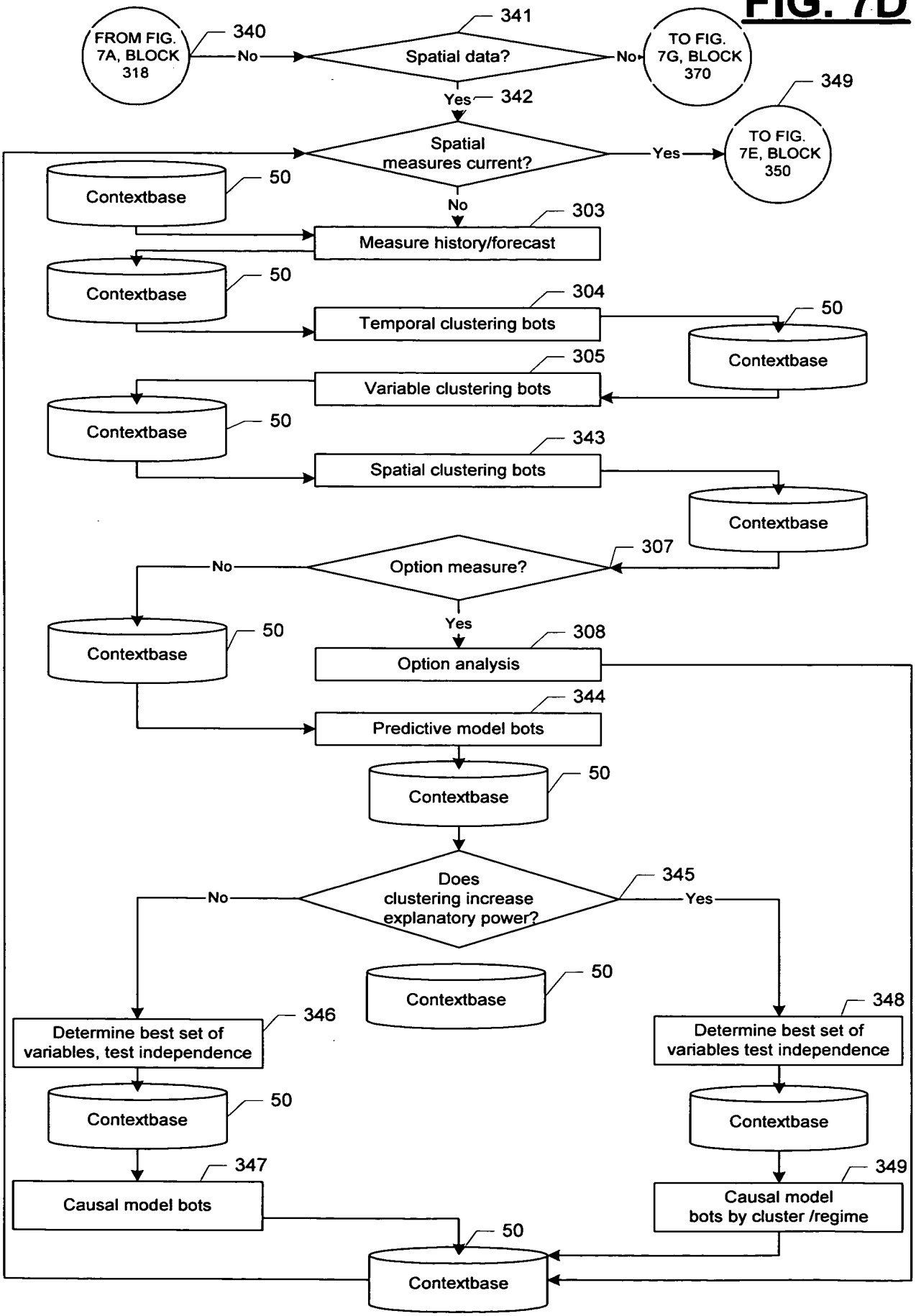

FROM FIG. 7A, BLOCK 318
340
No
341
Spatial data?
No
TO FIG. 7G, BLOCK 370
Yes
342
Spatial measures current?
Yes
349
TO FIG. 7E, BLOCK 350
No
Contextbase
50
303
Measure history/forecast
Contextbase
50
304
Temporal clustering bots
Contextbase
50
305
Variable clustering bots
Contextbase
50
343
Spatial clustering bots
Contextbase
307
Option measure?
No
Yes
Contextbase
50
308
Option analysis
344
Predictive model bots
Contextbase
50
Does clustering increase explanatory power?
345
No
Yes
Contextbase
50
Determine best set of variables, test independence
346
Contextbase
50
Causal model bots
347
Determine best set of variables test independence
348
Contextbase
Causal model bots by cluster /regime
349
Contextbase
50

FIG. 7E

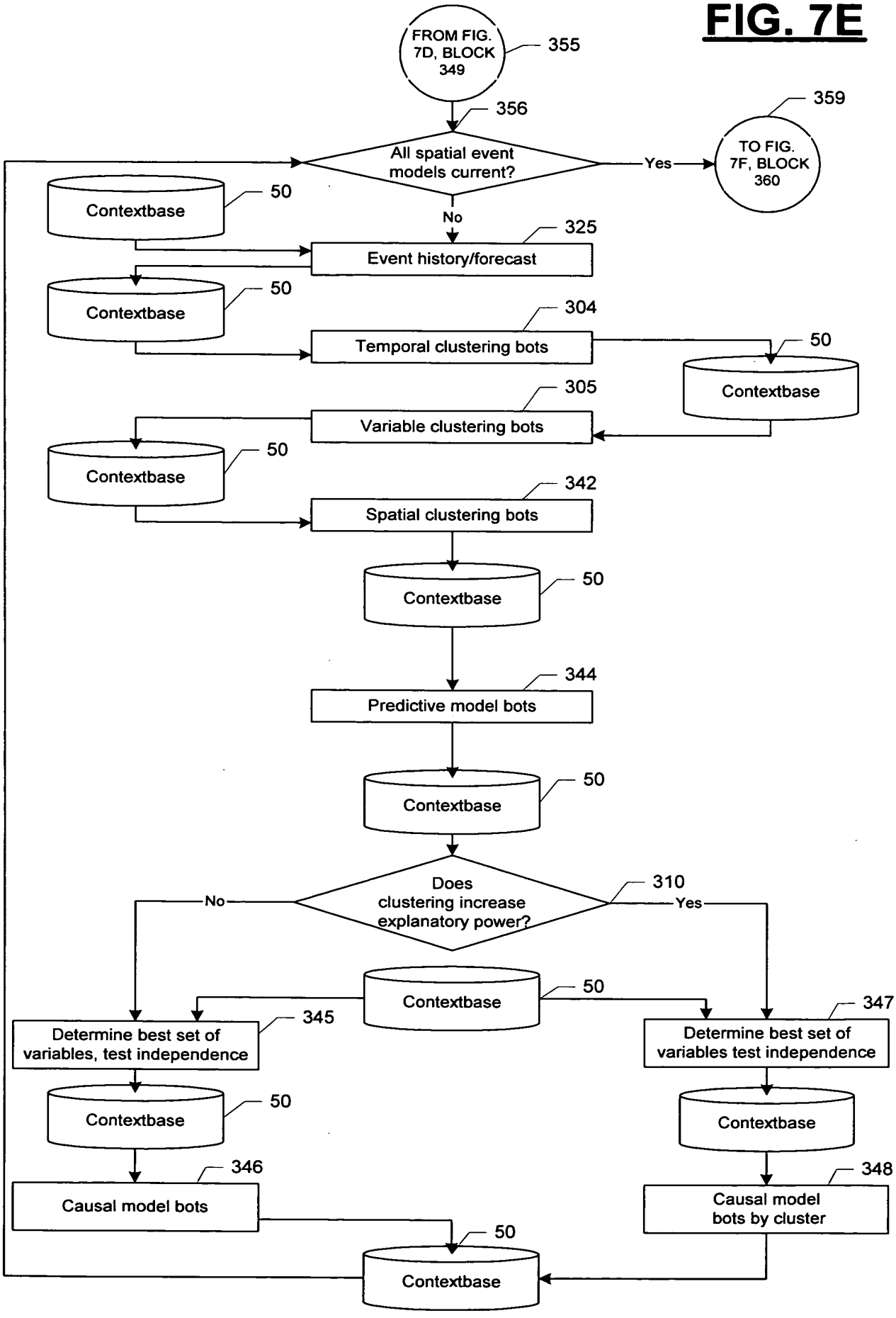

FROM FIG. 7D, BLOCK 349
355
356
All spatial event models current?
Yes
359
TO FIG. 7F, BLOCK 360
No
Contextbase
50
Event history/forecast
325
Temporal clustering bots
304
Variable clustering bots
305
Spatial clustering bots
342
Predictive model bots
344
Does clustering increase explanatory power?
310
No
Yes
Determine best set of variables, test independence
345
Determine best set of variables test independence
347
Causal model bots
346
Causal model bots by cluster
348

FIG. 7F

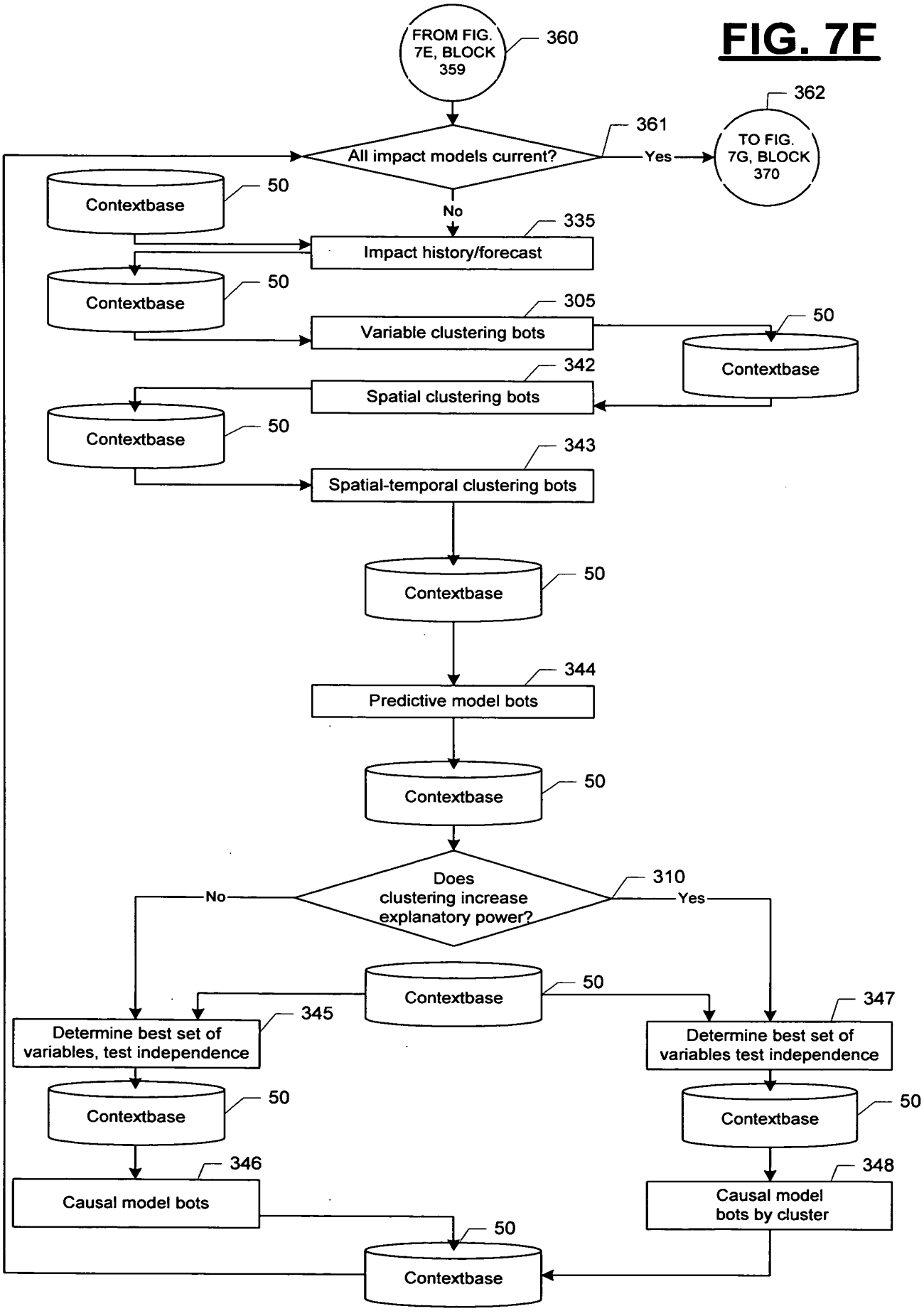

FROM FIG. 7E, BLOCK 359
360
All impact models current?
361
Yes
TO FIG. 7G, BLOCK 370
362
No
Contextbase
50
Impact history/forecast
335
Variable clustering bots
305
Spatial clustering bots
342
Spatial-temporal clustering bots
343
Predictive model bots
344
Does clustering increase explanatory power?
310
No
Yes
Determine best set of variables, test independence
345
Causal model bots
346
Determine best set of variables test independence
347
Causal model bots by cluster
348

FIG. 7G

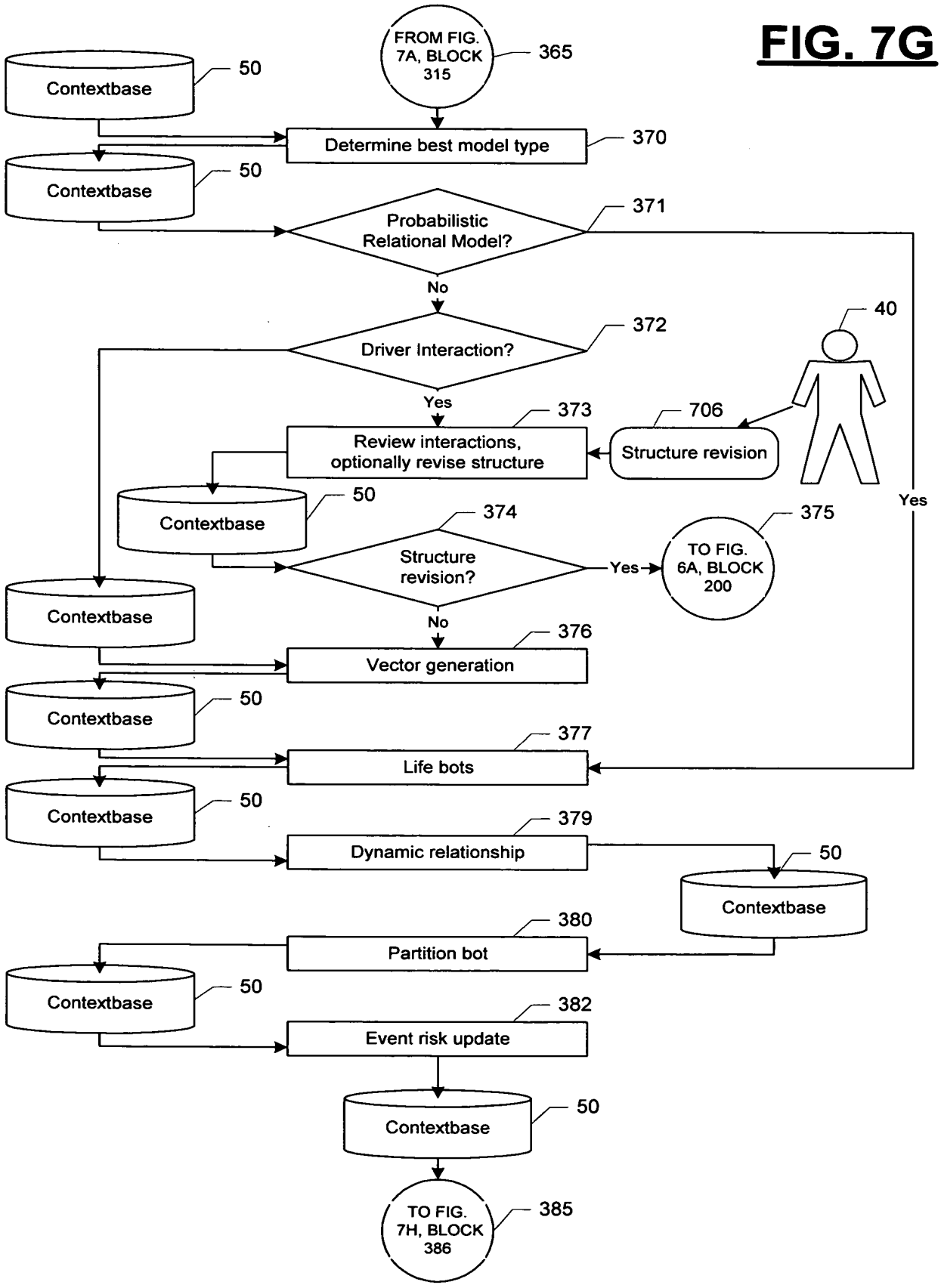

FROM FIG. 7A, BLOCK 315
365
Contextbase
50
Determine best model type
370
Probabilistic Relational Model?
371
No
Yes
Driver Interaction?
372
40
706
Structure revision
373
Review interactions, optionally revise structure
374
Structure revision?
375
TO FIG. 6A, BLOCK 200
376
Vector generation
377
Life bots
379
Dynamic relationship
380
Partition bot
382
Event risk update
385
TO FIG. 7H, BLOCK 386

FIG. 7H

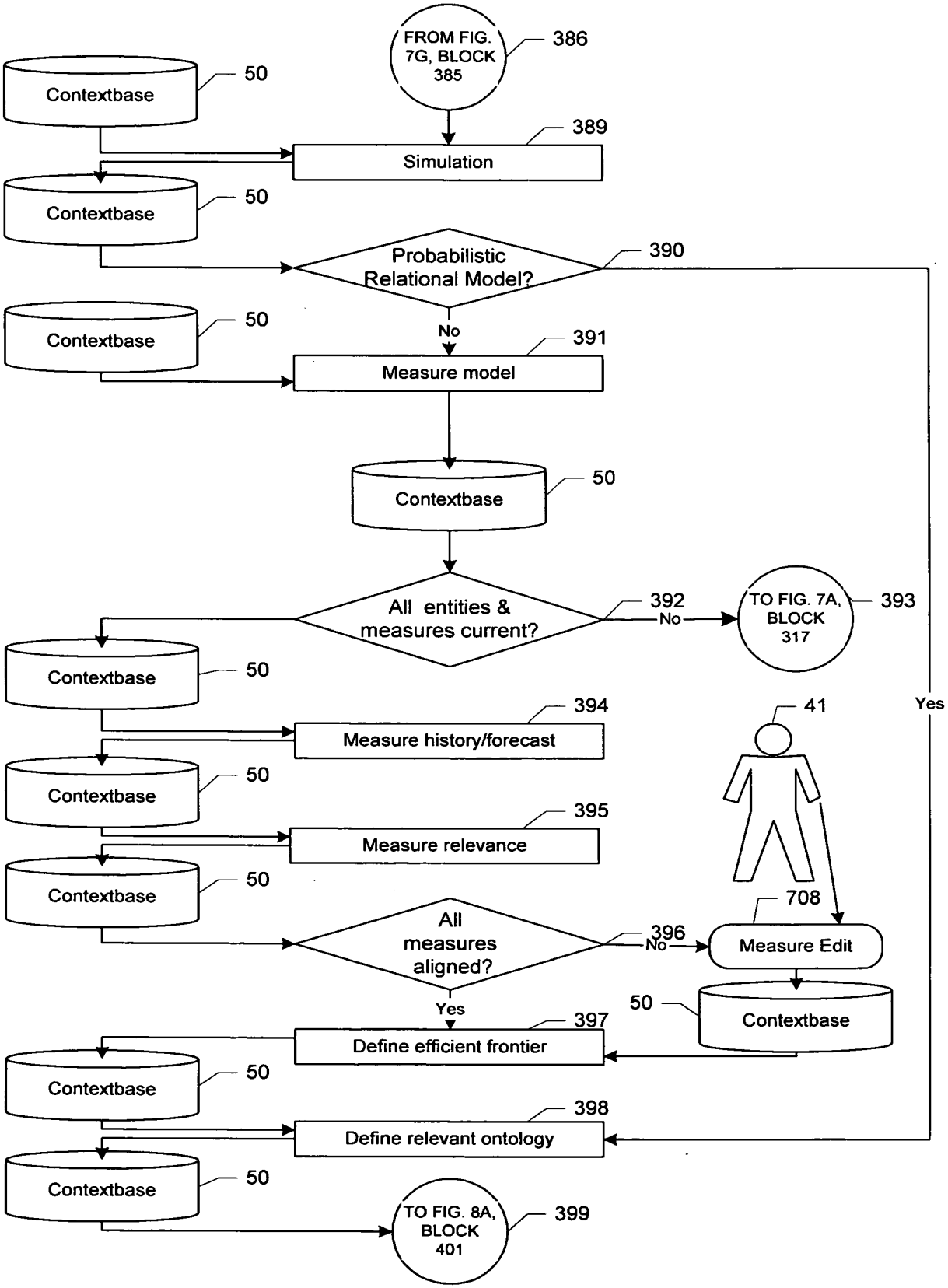

FROM FIG. 7G, BLOCK 385
386
Contextbase
50
Simulation
389
Contextbase
50
Probabilistic Relational Model?
390
No
Contextbase
50
Measure model
391
Contextbase
50
All entities & measures current?
392
No
TO FIG. 7A, BLOCK 317
393
Yes
Contextbase
50
Measure history/forecast
394
41
Contextbase
50
Measure relevance
395
Contextbase
50
All measures aligned?
396
No
708
Measure Edit
Contextbase
50
Yes
Define efficient frontier
397
Contextbase
50
Define relevant ontology
398
Contextbase
50
TO FIG. 8A, BLOCK 401
399

FIG. 8A

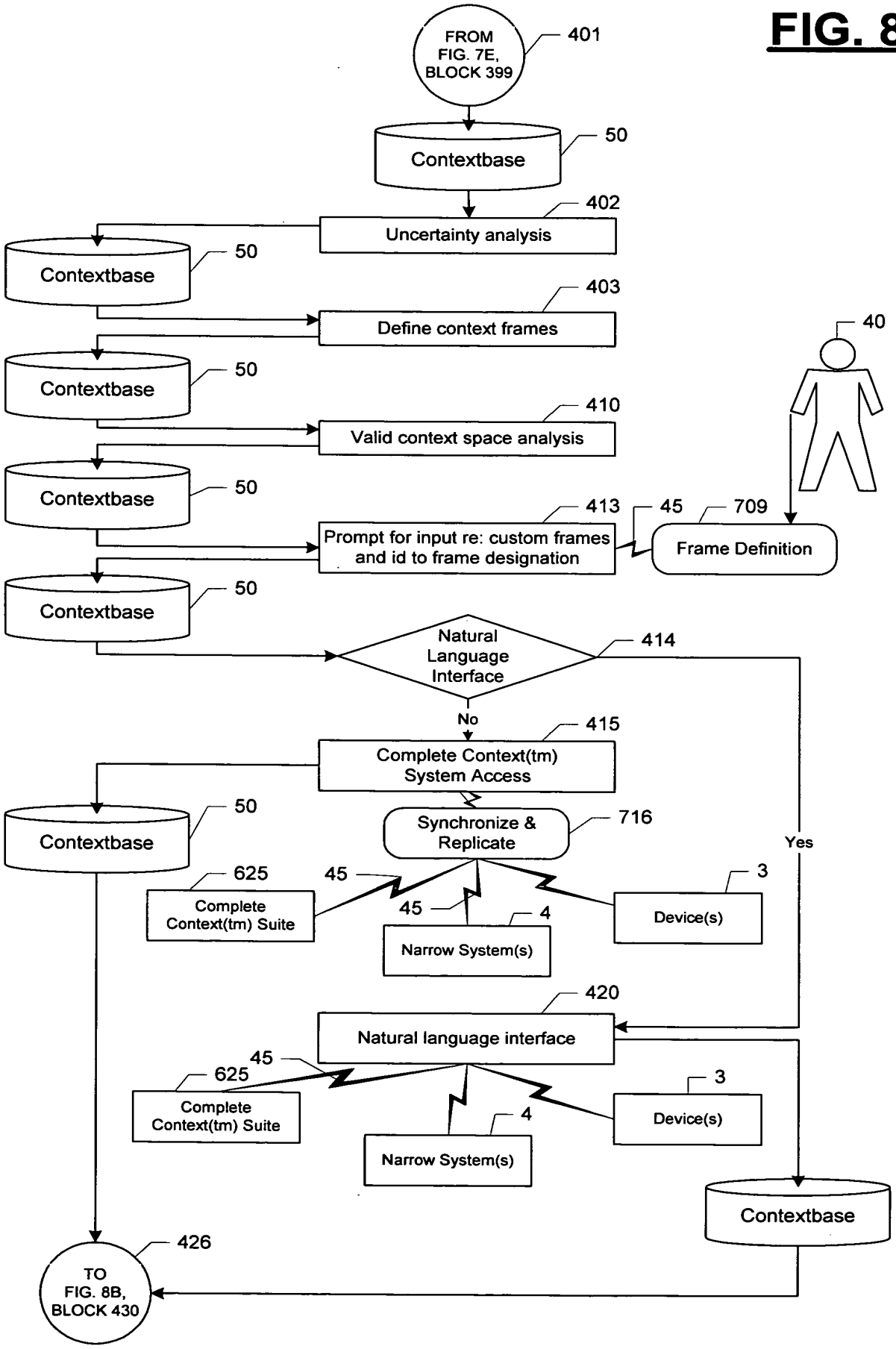

FROM FIG. 7E, BLOCK 399
401
Contextbase
50
402
Uncertainty analysis
Contextbase
50
403
Define context frames
Contextbase
50
410
Valid context space analysis
40
Contextbase
50
413
45
709
Prompt for input re: custom frames and id to frame designation
Frame Definition
Contextbase
50
Natural Language Interface
414
No
Yes
415
Complete Context(tm) System Access
Contextbase
50
Synchronize & Replicate
716
625
45
3
Complete Context(tm) Suite
45
4
Device(s)
Narrow System(s)
420
Natural language interface
45
625
3
Complete Context(tm) Suite
4
Device(s)
Narrow System(s)
Contextbase
426
TO FIG. 8B, BLOCK 430

FIG. 8B

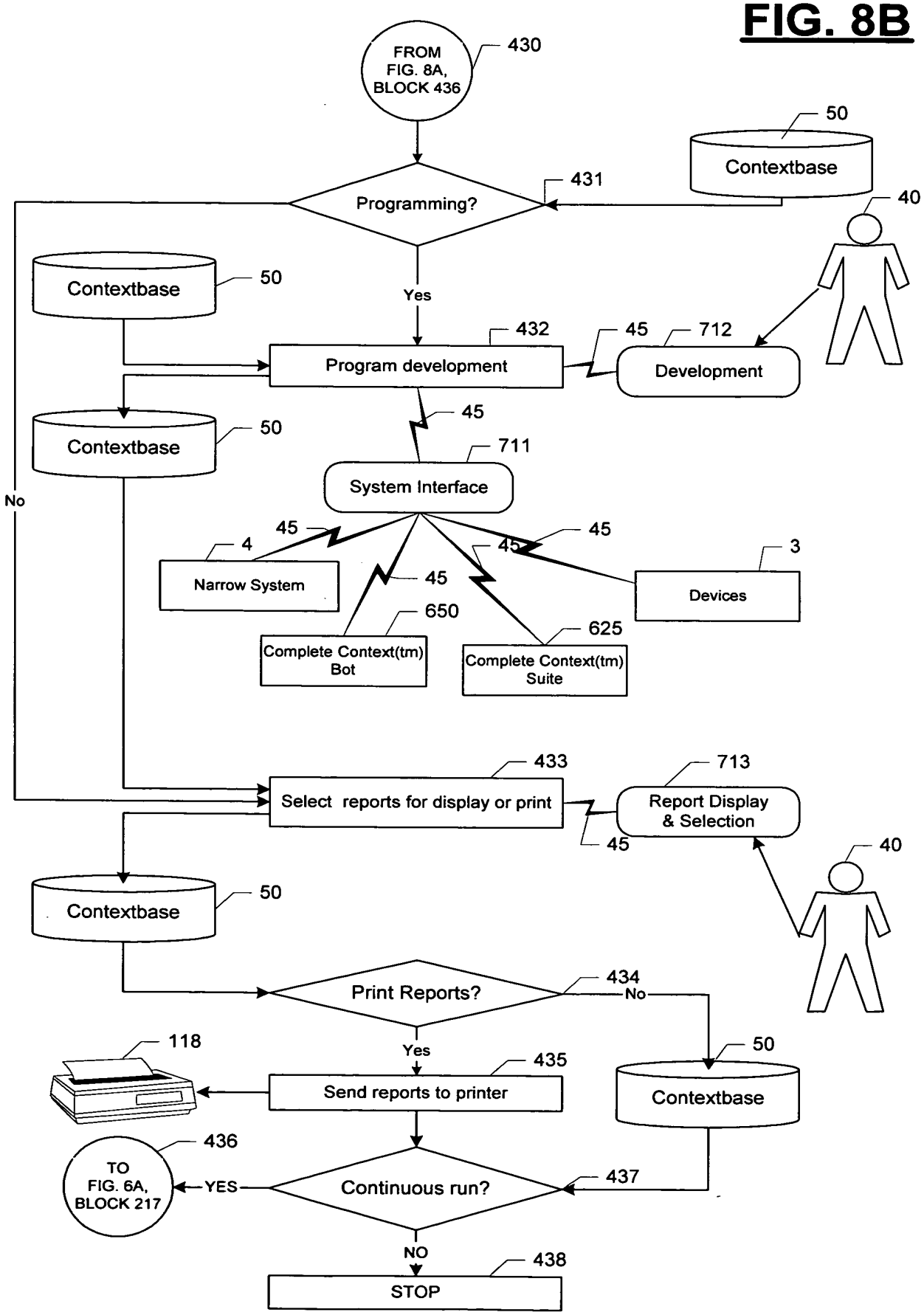

FROM FIG. 8A, BLOCK 436
430
50
Contextbase
431
Programming?
40
No
Yes
50
Contextbase
432
45
712
Program development
Development
45
50
Contextbase
711
System Interface
45
45
45
45
4
3
Narrow System
Devices
650
625
Complete Context(tm) Bot
Complete Context(tm) Suite
433
713
Select reports for display or print
Report Display & Selection
45
40
50
Contextbase
434
Print Reports?
No
118
Yes
435
50
Send reports to printer
Contextbase
436
TO FIG. 6A, BLOCK 217
YES
Continuous run?
437
NO
438
STOP

FIG. 9

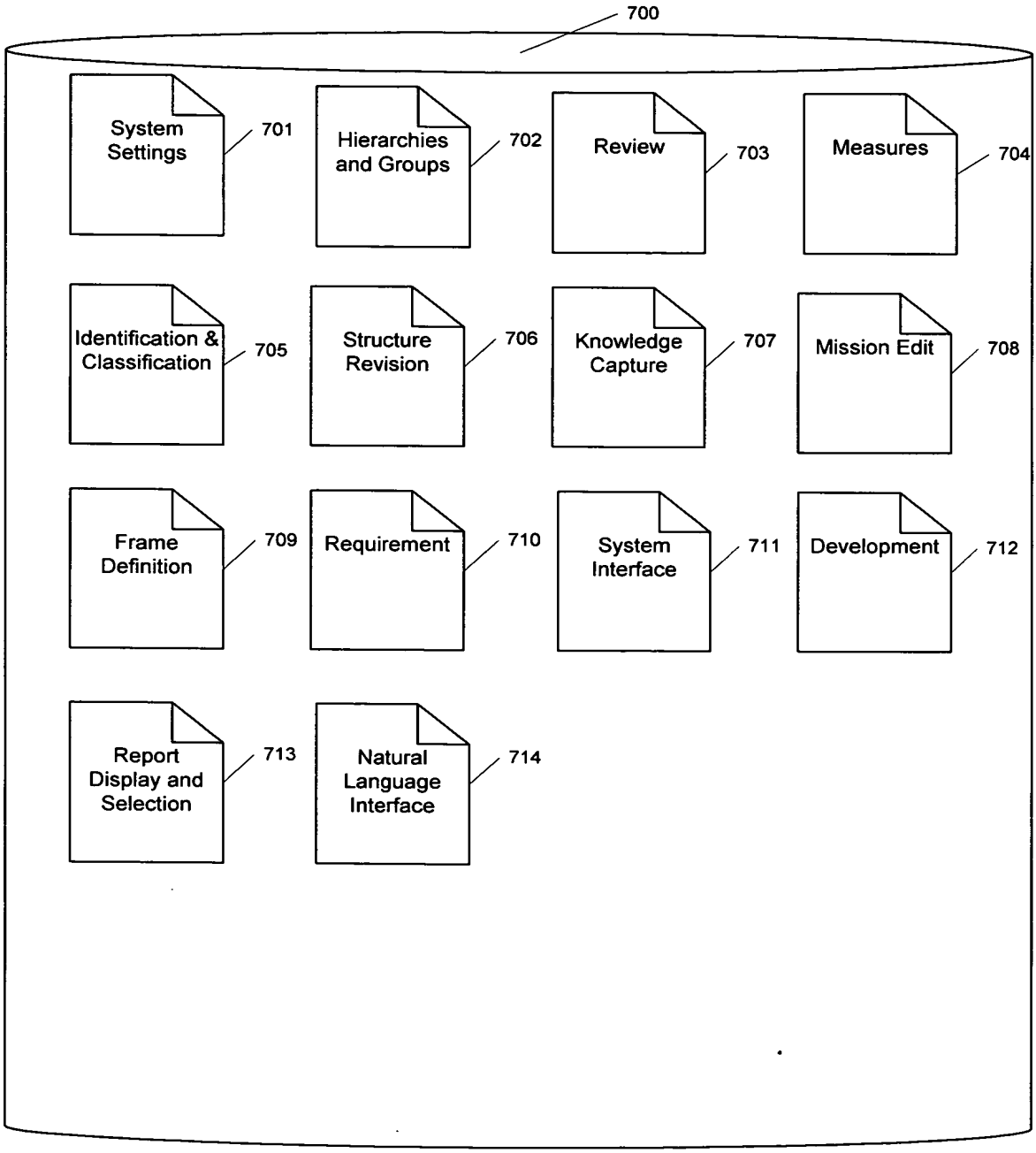

700
System Settings
701
Hierarchies and Groups
702
Review
703
Measures
704
Identification & Classification
705
Structure Revision
706
Knowledge Capture
707
Mission Edit
708
Frame Definition
709
Requirement
710
System Interface
711
Development
712
Report Display and Selection
713
Natural Language Interface
714

FIG. 10

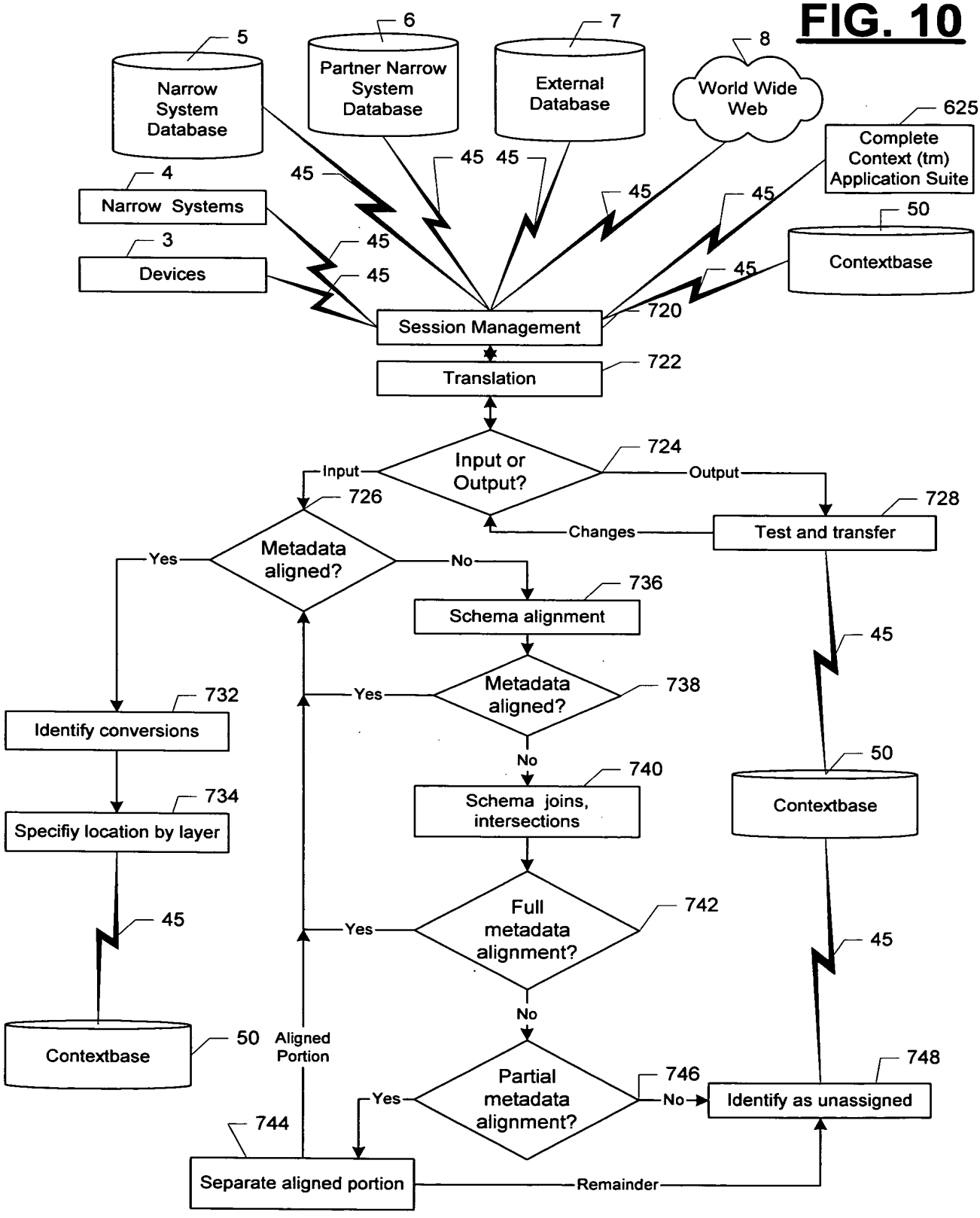

5
Narrow System Database
6
Partner Narrow System Database
7
External Database
8
World Wide Web
625
Complete Context (tm) Application Suite
4
Narrow Systems
3
Devices
45
50
Contextbase
Session Management
720
Translation
722
Input or Output?
724
Input
Output
726
Metadata aligned?
Yes
No
Changes
Test and transfer
728
736
Schema alignment
Metadata aligned?
738
Yes
No
732
Identify conversions
734
Specifiy location by layer
740
Schema joins, intersections
Full metadata alignment?
742
Yes
No
Aligned Portion
Partial metadata alignment?
746
Yes
No
748
Identify as unassigned
744
Separate aligned portion
Remainder

FIG. 11

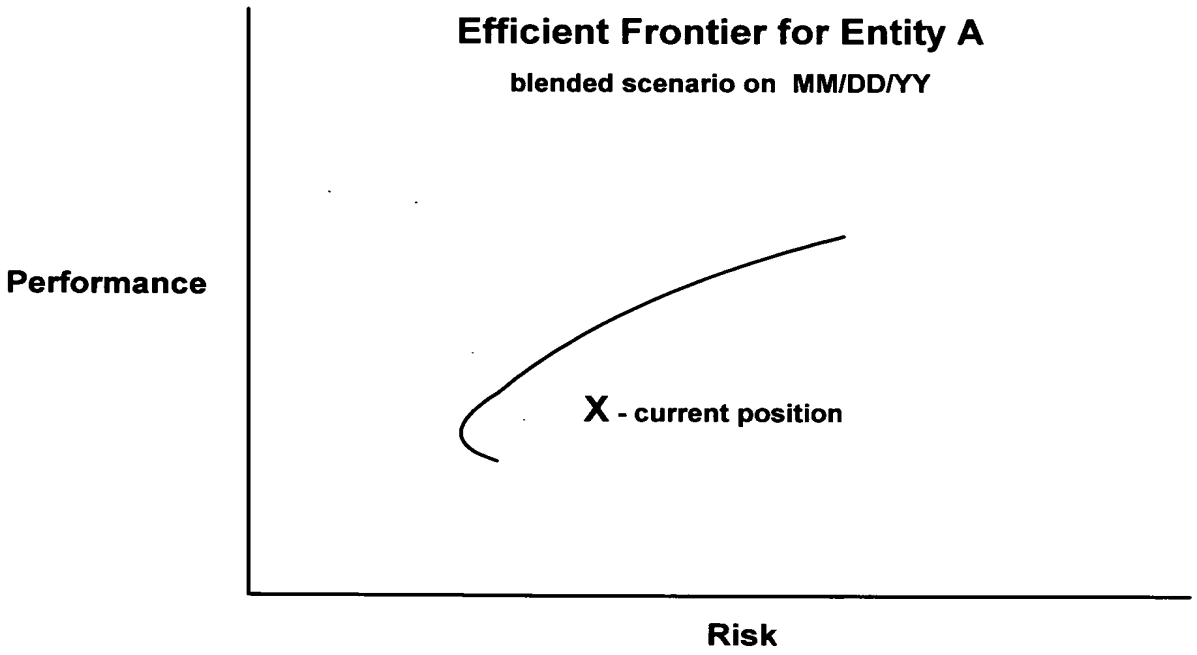


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FIG. 12

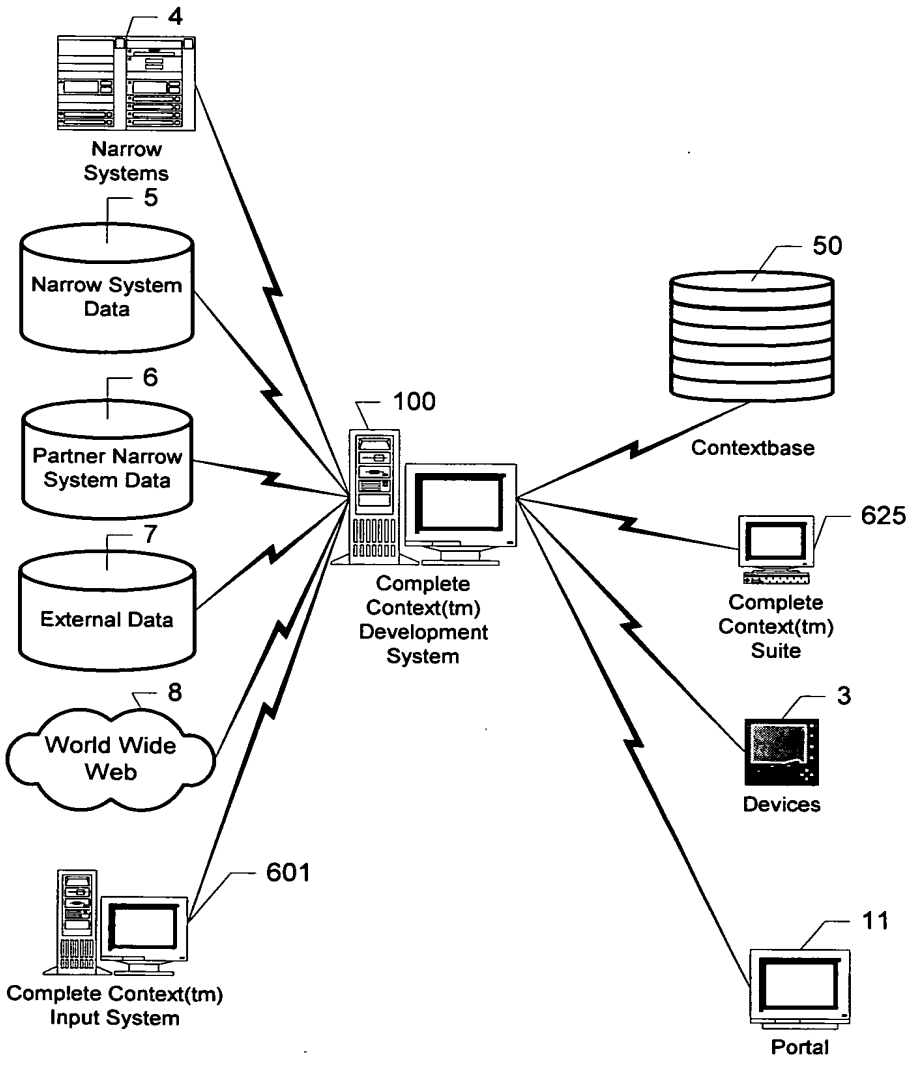

4
Narrow Systems
5
Narrow System Data
6
Partner Narrow System Data
7
External Data
8
World Wide Web
601
Complete Context(tm) Input System
100
Complete Context(tm) Development System
50
Contextbase
625
Complete Context(tm) Suite
3
Devices
11
Portal

FIG. 13

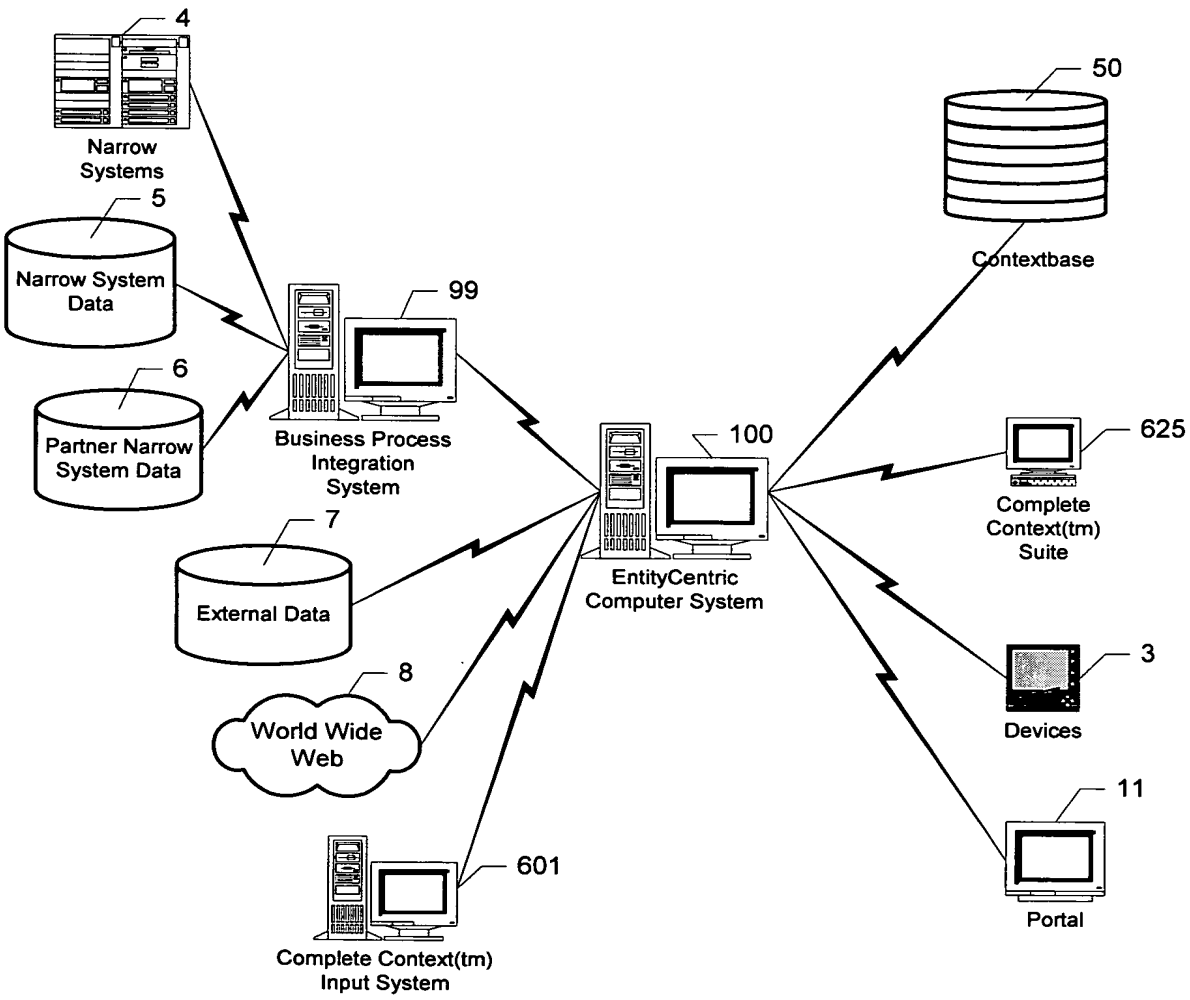

4
Narrow Systems
5
Narrow System Data
6
Partner Narrow System Data
99
Business Process Integration System
7
External Data
8
World Wide Web
601
Complete Context(tm) Input System
100
EntityCentric Computer System
50
Contextbase
625
Complete Context(tm) Suite
3
Devices
11
Portal

FIG. 14

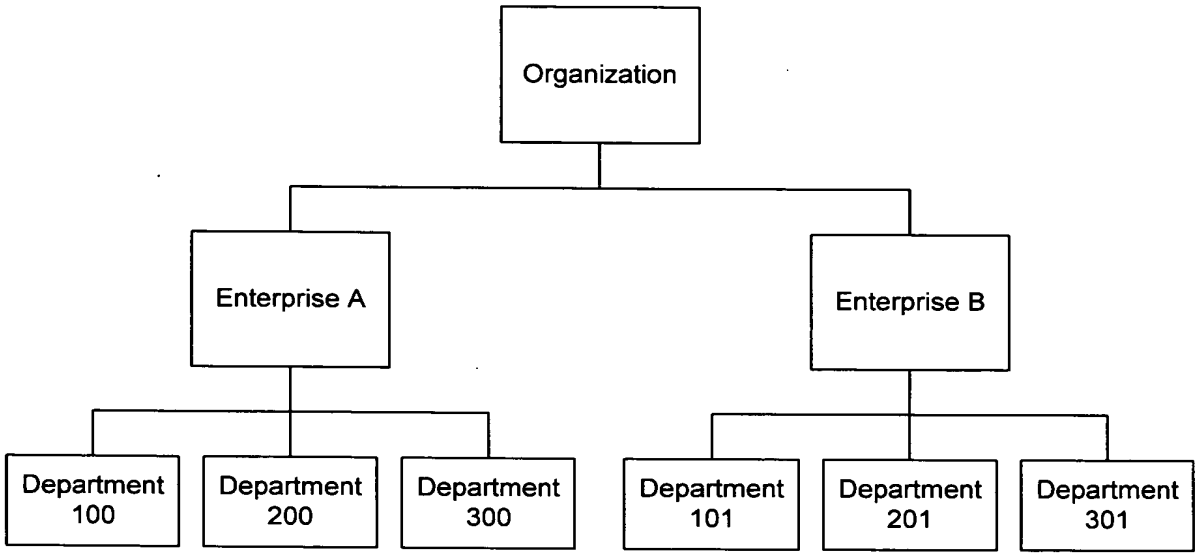

Organization
Enterprise A
Enterprise B
Department 100
Department 200
Department 300
Department 101
Department 201
Department 301

FIG. 15

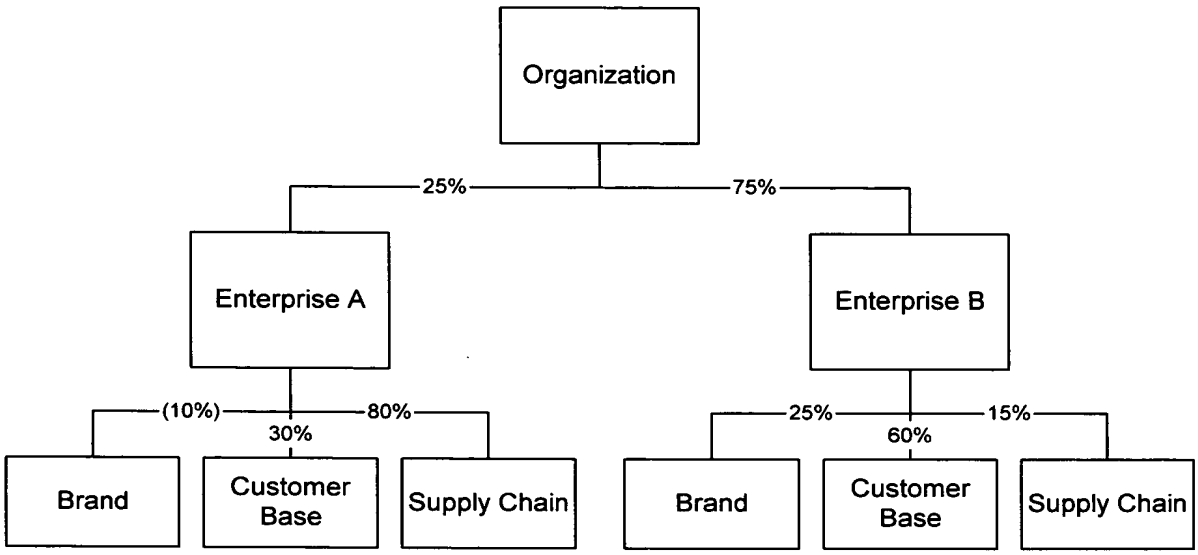

Organization
25%
75%
Enterprise A
Enterprise B
(10%)
30%
80%
25%
60%
15%
Brand
Customer Base
Supply Chain
Brand
Customer Base
Supply Chain

FIG. 16

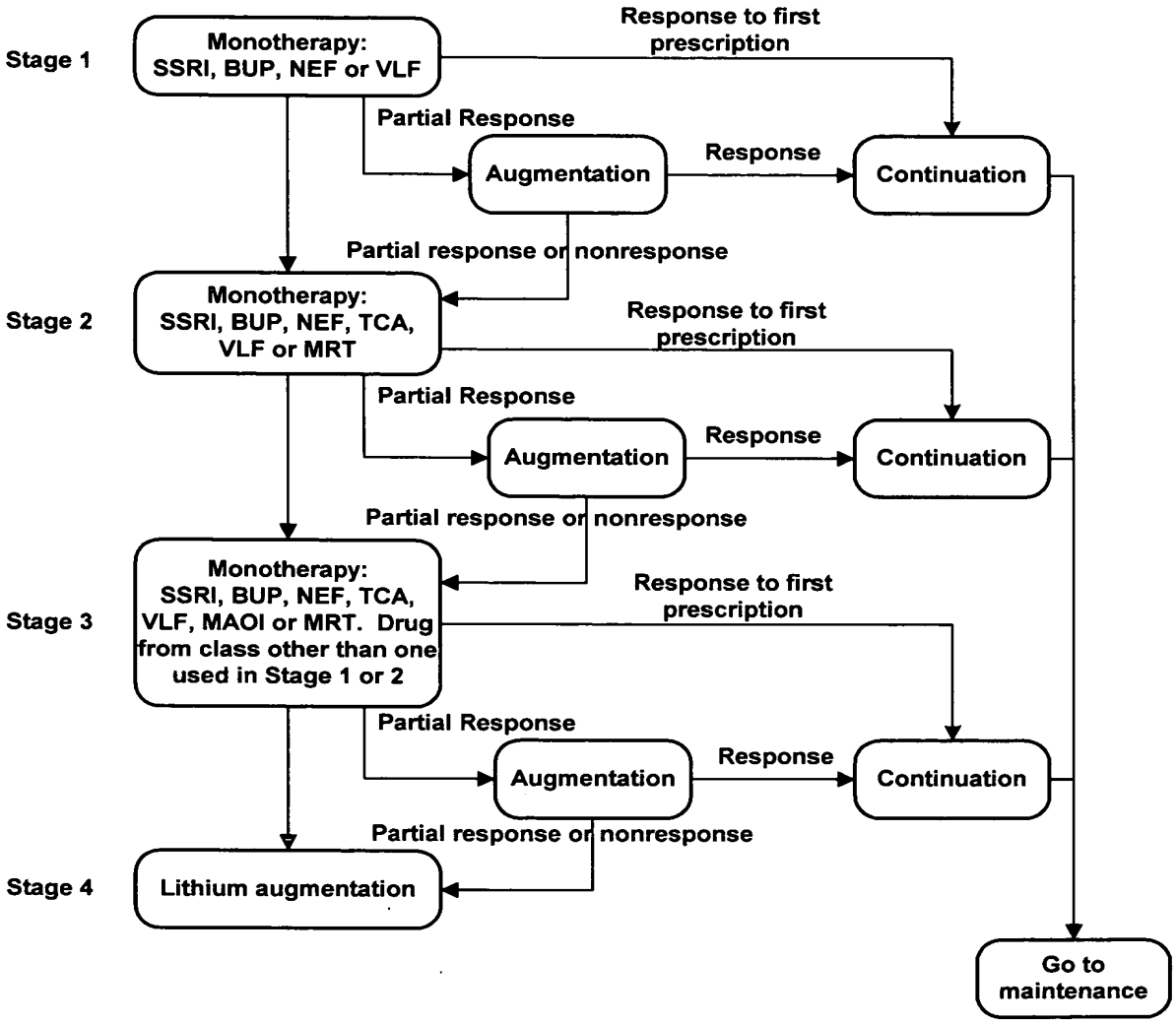
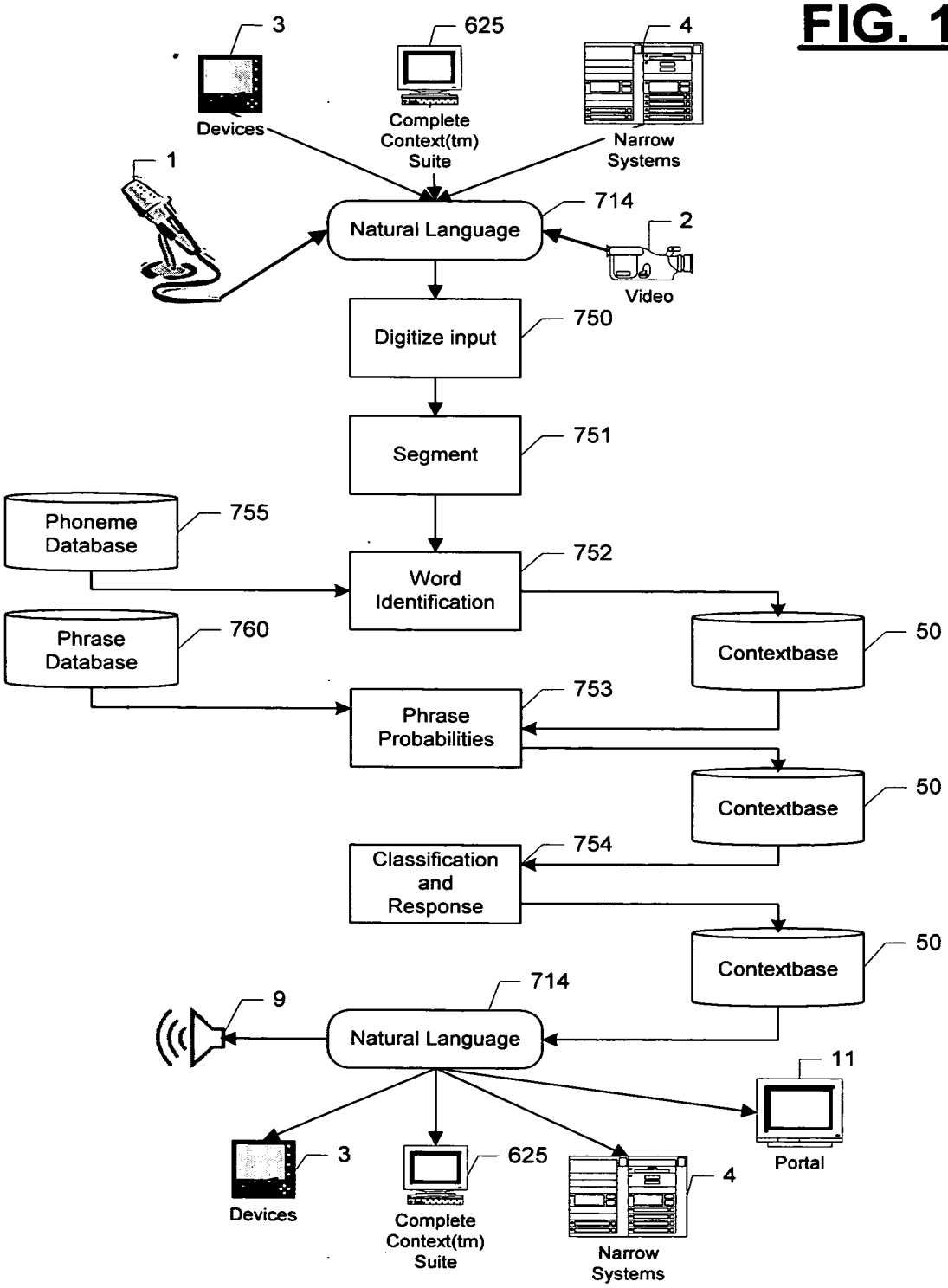

Stage 1
Monotherapy: SSRI, BUP, NEF or VLF
Response to first prescription
Partial Response
Augmentation
Response
Continuation
Partial response or nonresponse
Stage 2
Monotherapy: SSRI, BUP, NEF, TCA, VLF or MRT
Response to first prescription
Partial Response
Augmentation
Response
Continuation
Partial response or nonresponse
Stage 3
Monotherapy: SSRI, BUP, NEF, TCA, VLF, MAOI or MRT. Drug from class other than one used in Stage 1 or 2
Response to first prescription
Partial Response
Augmentation
Response
Continuation
Partial response or nonresponse
Stage 4
Lithium augmentation
Go to maintenance

FIG. 17


3
Devices
625
Complete Context(tm) Suite
4
Narrow Systems
1
714
Natural Language
2
Video
Digitize input
750
Segment
751
Phoneme Database
755
Word Identification
752
Phrase Database
760
Contextbase
50
Phrase Probabilities
753
Contextbase
50
Classification and Response
754
Contextbase
50
714
9
Natural Language
11
Portal
3
Devices
625
Complete Context(tm) Suite
4
Narrow Systems